

ADVERTISEMENT FOR BIDS

Sealed bids will be received for the State of Louisiana by the Purchasing Department of The University of Louisiana Monroe, Administration Building 1-29, 700 University Avenue, Monroe, LA 71209-2250 until 2:00 P.M., **Tuesday, May 18, 2010.**

ANY PERSON REQUIRING SPECIAL ACCOMMODATIONS SHALL NOTIFY THE PURCHASING DEPARTMENT OF THE TYPE(S) OF ACCOMMODATION REQUIRED NOT LESS THAN SEVEN (7) DAYS BEFORE THE BID OPENING.

FOR: **Intramural Field Complex Renovations**
BID NUMBER: 50006-271

Complete Bidding Documents may be obtained from the Director of Purchasing, The University of Louisiana at Monroe, Monroe, Louisiana, 71209-2250, via fax request at 318/ 342-5218 or the State of Louisiana LaPac page: <http://wwwsrch2.doa.louisiana.gov/osp/lapac/pubmain.asp> by using Bid No.50006-271.

All bids must be accompanied by bid security equal to five percent (5%) of the sum of the base bid and all alternates, and must be in the form of a certified check, cashier's check or Facility Planning and Control Bid Bond Form written by a surety company licensed to do business in Louisiana, signed by the surety's agency or attorney-in-fact. Surety must be listed on the current U.S. Department of the Treasury Financial Management Service list of approved bonding companies as approved for an amount equal to or greater than the amount for which it obligates itself in the Bond, or must be a Louisiana domiciled insurance company with at least an A- rating in the latest printing of the A.M. Best's Key Rating Guide. If surety qualifies by virtue of its Best's listing, the amount of the Bond may not exceed ten percent (10%) of policyholders' surplus as shown in the latest A.M. Best's Key Rating Guide. The Bid Bond shall be in favor of the University of Louisiana at Monroe and shall be accompanied by appropriate power of attorney. No Bid Bond indicating an obligation of less than five percent (5%) by any method is acceptable.

The successful Bidder shall be required to furnish a Performance and Payment Bond written by a company licensed to do business in Louisiana, in an amount equal to 100% of the Contract amount. Surety must be listed currently on the U.S. Department of Treasury Financial Management Service List (Treasury List) as approved for an amount equal to or greater than the contract amount, or must be an insurance company domiciled in Louisiana or owned by Louisiana residents. If surety is qualified other than by listing on the Treasury list, the contract amount may not exceed fifteen percent of policyholders' surplus as shown by surety's most recent financial statements filed with the Louisiana Department of Insurance and may not exceed the amount of \$500,000. However, a Louisiana domiciled insurance company with at least an A- rating in the latest printing of the A.M. Best's Key Rating Guide shall not be subject to the \$500,000 limitation, provided that the contract amount does not exceed ten percent of policyholders' surplus as shown in the latest A.M. Best's Key Rating Guide nor fifteen percent of policyholders' surplus as shown by surety's most recent financial statements filed with the Louisiana Department of Insurance. The Bond shall be signed by the surety's agent or attorney-in-fact.

A MANDATORY PRE-BID CONFERENCE WILL BE HELD, APRIL 20, 2010 AT 10:00 AM, AT THE CONCESSION STAND, 4711 BON AIRE DRIVE, MONROE LA 71209.

Bids shall be accepted from Contractors who are licensed under LA. R.S. 37:2150-2192 for classification of **General Contractor**. Bidder is required to comply with provisions and requirements of LA. R.S. 38:2212(A)(1)(c). No bid may be withdrawn for a period of thirty (30) days after receipt of bids, except under the provisions of LA. R.S. 38:2214.

The Owner reserves the right to reject any and all bids for just cause. In accordance with La. R.S. 38:2212(A)(1)(b), the provisions and requirements of this Section, those stated in the advertisement for bids, and those required on the bid form shall not be considered as informalities and shall not be waived by any public entity.

STATE OF LOUISIANA
THE UNIVERSITY OF LOUISIANA MONROE
MONROE, LOUISIANA
A Member of the University of Louisiana System

INVITATION TO BID
FOR
INTRAMURAL FIELD COMPLEX ENHANCEMENT PROJECT

ISSUING AGENCY: The University of Louisiana Monroe
Purchasing Department
700 University Avenue
Monroe, LA 71209

DIRECTOR OF PURCHASING: Larry Estess
PROCUREMENT MANAGER 1: Susie Clay
Telephone: 318 342 5209
REQUISITIONED BY: Jason Roubique
Telephone: 318 342 5171

RELEASE DATE: April 13, 2010
BID OPENING DATE: May 18, 2010
BID OPENING TIME: 2:00 p.m., Central Time
BID OPENING LOCATION: The University of Louisiana Monroe
Purchasing Department
Administration Building 1-29
700 University Avenue
Monroe, Louisiana

NOTE: THIS SOLICITATION IS A SEALED BID AND MUST BE RETURNED BY MAIL OR DELIVERED IN PERSON. BID RESPONSE FORMS CANNOT BE FAXED AND ANY FAX RESPONSES SHALL BE REJECTED.

This ITB is available in electronic form at <http://wwwprd.doa.louisiana.gov/osp/lapac/pubmain.asp> It is in printed form by submitting a written request to the Procurement Manager listed above. It is the Bidder's responsibility to check the Office of State Purchasing LaPAC website frequently for any possible addenda that may be issued. ULM is not responsible for a bidder's failure to download any addenda documents required to complete an Invitation to Bid.

Notice To Vendors		THE UNIVERSITY OF LOUISIANA AT MONROE		13-Apr-10		Date and Time by Which Quotation Must be Returned 02:00 PM, Central Time May 18, 2010	
This Is Not An Order. It Is Merely A Request For Prices		Monroe, Louisiana REQUEST FOR QUOTATION					
		INTRAMURAL COMPLEX ENHANCEMENT		TO THE VENDOR:			
		Department		To be returned on or before date specified above to:			
Name and Address of Vendor (Firm or Individual), PLEASE COMPLETE BEFORE RETURNING							
<div style="border: 1px solid black; height: 100px; width: 100%;"></div>				THE UNIVERSITY OF LOUISIANA AT MONROE PURCHASING DEPARTMENT 700 UNIVERSITY AVENUE, ADMIN. BLDG. 1-29 MONROE, LOUISIANA 71209-2250			
				NOTE: THE UNIVERSITY RESERVE THE RIGHT TO ACCEPT OR REJECT ANY OR ALL BIDS, AND WAIVE INFORMALITIES			
				THIS BID IS DUE IN PURCHASING OFFICE AS STATED ABOVE			
				LATE BIDS NOT ACCEPTED			
PURCHASE REQUISITION NO 215799 BID 50006-271 P. O. No.							
INSTRUCTIONS TO BIDDERS:							
1.	READ THE ENTIRE BID, INCLUDING ALL TERMS AND CONDITIONS AND SPECIFICATIONS.						
2.	ALL BID PRICES MUST BE TYPED OR WRITTEN IN INK. ANY CORRECTIONS, ERASURES OR OTHER FORMS OF ALTERATION TO UNIT PRICES SHOULD BE INITIALED BY THE BIDDER.						
3.	THIS BID IS TO BE MANUALLY SIGNED IN BLUE INK.						
4.	BID PRICES SHALL INCLUDE DELIVERY OF ALL ITEMS F.O.B. DESTINATION OR AS OTHERWISE PROVIDED. BIDS CONTAINING "PAYMENT IN ADVANCE" OR "C.O.D." REQUIREMENTS MAY BE REJECTED. PAYMENT IS TO BE MADE WITHIN 30 DAYS AFTER RECEIPT OF PROPERLY EXECUTED INVOICE OR						
5.	BIDS SUBMITTED ARE SUBJECT TO PROVISIONS OF THE LAWS OF THE STATE OF LOUISIANA INCLUDING BUT NOT LIMITED TO L.R.S. 39:1551-1736; PURCHASING RULES AND REGULATIONS; EXECUTIVE ORDERS; STANDARD TERMS AND CONDITIONS; SPECIAL CONDITIONS; AND SPECIFICATIONS LIST						
6.	SEALED BIDS MUST BE RECEIVED AT THE DATE AND TIME AS SPECIFIED ABOVE AND DELIVERED TO THE PURCHASING DEPARTMENT, ADMINISTRATION BUILDING 1-29, 700 UNIVERSITY AVE, MONROE LA 71209.						
7.	TO ASSURE CONSIDERATION OF YOUR BID, ALL BIDS AND ADDENDA SHOULD BE RETURNED IN AN ENVELOPE OR PACKAGE CLEARLY MARKED WITH THE BID OPENING DATE AND THE BID NUMBER.						
8.	ALL ITEMS WILL BE AWARDED TO ONE VENDOR WITH THE PROPER STATE OF LOUISIANA LICENSE.						
9.	NOTE: A COMPLETE RECORD OF ALL BIDS IS KEPT ON FILE IN THE PURCHASING DEPARTMENT SUBJECT TO THE INSPECTIONS OF ANY CITIZEN. EVERY COURTESY WILL BE AFFORDED ANY CITIZEN WHO IS INTERESTED IN INVESTIGATING FOR ANY PURPOSE THE RECORD OF STATE PURCHASES. <u>COPIES OF EVALUATION CAN BE FAXED TO YOU ONLY AFTER RECEIPT OF WRITTEN REQUEST. PLEASE DO NOT CALL</u>						
10.	IMPORTANT: BY SIGNING THE BID, THE BIDDER CERTIFIES COMPLIANCE WITH ALL INSTRUCTIONS TO BIDDERS, TERMS, CONDITIONS AND SPECIFICATIONS, AND FURTHER CERTIFIES THAT THIS BID IS MADE WITHOUT COLLUSION OR FRAUD. THIS BID IS TO BE MANUALLY SIGNED IN INK BY A PERSON AUTHORIZED TO BIND THE VENDOR. ALL BID INFORMATION SHALL BE MADE WITH INK OR TYPEWRITTEN.						
For questions regarding this bid, please contact <u>Susie Clay</u> at <u>318/342-5209</u>.							
TO THE VENDOR:				THIS QUOTATION IS SUBMITTED BY			
BID BOND OF 5% REQUIRED FOR THIS BID				Name of Vendor (Firm or Individual) _____			
_____ BID BOND ATTACHED \$				Signature _____			
_____ CERTIFIED CHECK ATTACHED \$				Name (Printed) _____			
PERFORMANCE BOND WILL BE REQUIRED				Telephone # _____			
LOUISIANA CONTRACTORS LICENSE #				Fax # _____			
MANDATORY PRE-BID - TUESDAY, APRIL 20, 2010				Title _____			
RELEASE SOLICITION -04/13/2010				Quote # _____			
DEADLINE TO RECEIVE INQUIRIES - 05/04/2010				Date Submitted _____			
DEADLINE TO ANSWER INQUIRIES - 05/07/2010							

Definitions:

“Alternate” A specified item of construction that is set apart by a separate sum. An alternate may or may not be incorporated into the contract sum at the discretion of the owner at the time of contract award.

“Base Bid” The amount of money stated in the bid as the sum for which the bidder offers to perform the work described in the bidding documents, prior to the adjustments for alternate bids but including any unit prices.

“Bid” A complete signed proposal to perform work or a designated portion for a stipulated sum. A bid is submitted in accordance with the bidding documents, [is evaluated on price alone and is not subject to qualification](#).

“Bidder” An entity or person who submits a bid for a prime contract with the owner. A bidder is not a contractor on a specific project until a contract is signed between the bidder and the owner.

“Bid Form” A form provided to the bidder on which to submit his bid.

“Bid Security” A bid bond or deposit submitted with a bid to guarantee to the owner that the bidder, if awarded the contract, will execute the contract within a specified period of time and will furnish any bonds or other requirements of the bidding documents.

“Bidding Documents” Documents usually including advertisement, [bid notice](#) or invitation to bidders, instructions to bidders, bid form, form of contract, forms of bonds, conditions of contract, drawings, specifications [addenda, special provisions, and all other written instruments prepared by or on behalf of a public entity for use by prospective bidders on a public contract](#).

“Owner” The public entity issuing the bid.

["Public entity" means and includes the state of Louisiana, or any agency, board, commission, department, or public corporation of the state, created by the constitution or statute or pursuant thereto, or any political subdivision of the state, including but not limited to any political subdivision as defined in Article VI Section 44 of the Constitution of Louisiana, and any public housing authority, public school board, or any public officer whether or not an officer of a public corporation or political subdivision. "Public entity" shall not include a public body or officer where the particular transaction of the public body or officer is governed by the provisions of the model procurement code.](#)

["Public work" Means the erection, construction, alteration, improvement, or repair of any public facility or immovable property owned, used, or leased by a public entity.](#)

“Unit Price” The amount stated in a project bid representing the price per unit of materials and/or services.

INSTRUCTIONS TO BIDDERS

ARTICLE 1

DEFINITIONS

- 1.1 The Bidding Documents include the following:
1. Advertisement for Bids.
 2. Instructions to Bidders.
 3. Bid Form
 4. Contract between Owner and Contractor.
 5. Performance and Payment Bond.
 6. Affidavit of Compliance with Act 38, 1965 Louisiana State Legislature.
 7. General Conditions of the Contract for Intramural Field Complex Enhancements.
 8. Supplementary (and amended General) Conditions.
 9. Divisions of the Technical Specifications.
 10. Addenda issued during bid period.
- 1.2 Addenda are written or graphic instruments issued prior to the execution of the Contract which modify or interpret the bidding documents, including Drawings and Specifications, by additions, deletions, clarifications or corrections. Addenda will become part of the Contract Documents when the Contract is executed.

ARTICLE 2

BIDDER'S REPRESENTATION

- 2.1 Each bidder by submitting a bid represents that s/he has read and understands the bidding documents.
- 2.2 Each bidder by making a bid represents that s/he has visited the site and familiarized themselves with the local conditions under which the work is to be performed.
- 2.3 Each bidder by submitting a bid understands they must be fully qualified under any state or local licensing law for Contractors in effect at the time and at the location of the project before submitting a bid. In the State of Louisiana; only the bids of contractors and sub-contractors duly licensed under Louisiana Revised Statute 37:2150, et. seq., will be considered, if applicable. The Contractor shall be responsible for ensuring all Sub-contractors or prospective Sub-contractors are duly licensed in accordance with the statute above.
- 2.4 Each bidder submitting a bid understands that ULM's Public Works Policy related to contractor licensure is that a contractor's license is required for any/all projects with an anticipated/bid cost greater than \$50,000

ARTICLE 3

BIDDING PROCEDURES

- 3.1 Bids must be prepared on the forms provided by the Owner and submitted in accordance with the Instructions to Bidders.
- 3.2 A bid will be considered invalid if not deposited at the designated location prior to the time and date for receipt of bids indicated in the advertisement or invitation to bid, or prior to any extension thereof issued to the bidders.
- 3.3 Unless otherwise provided in any supplement to these Instructions to Bidders, no bidder shall modify, withdraw or cancel his bid or any part thereof for thirty days after the receipt of bids. However, written request (letter or telegram) for the withdrawal of a bid or any part thereof will be granted if the request is received prior to the specified time of opening. Formal bids, amendments thereto or request for withdrawal of bids or any part thereof received after time specified for bid opening will not be considered whether delayed in the mail or for any other cause whatsoever.
- 3.4 Bids are to be sealed and will be received until the time specified and at the place specified in the advertisement for bids. It shall be the specific responsibility of the Bidders to deliver sealed bids to The University of Louisiana at Monroe at the appointed place and prior to the announced time for the opening of bids. Late delivery of a bid for any reason including late delivery by the United States Mail shall disqualify the bid.
- 3.5 Prior to the receipt of bids, Addenda, if any, will be mailed or delivered (hard copy or email) to each person or firm recorded by the Owner as having received the bidding documents and will be available for inspection wherever the bidding documents are kept available for that purpose. Addenda issued after receipt of bids will be mailed or delivered only to the sealed bidder.
- 3.6 **Bids for Public Works will not be considered or accepted unless the bid is accompanied by bid security in an amount of not less than five percent (5%) of the sum of the Base Bid and any Alternates.** The bid security shall be in the form of a certified check drawn on a bank insured by the Federal Deposit Insurance Corporation, or a bid bond written by a surety company licensed to do business in Louisiana, accompanied by appropriate power of attorney and in favor of The University of Louisiana at Monroe.
- 3.7 All Bids and Sureties must be signed by a duly authorized person of the firm or corporation and be accompanied by legal evidence authorizing the signature as valid.
- 3.8 Any interpretation, correction or change of the Bidding Documents will be made by Addendum. Interpretations, corrections or changes of the Bidding Documents made in any other manner will not be binding, and bidders shall not rely upon such interpretations, corrections and changes.

- 3.9 If bidding other than as specified, an indication must be made on the bid form, stating manufacturer's name and model number(s) being submitted for bid. Detailed specifications, drawings, pictures, brochures, diagrams or any other literature or information necessary to determine the equality of the bid response must be included with the bid form.
- 3.10 Prior to the issuance of a purchase order the successful bidder must submit the following items to the Purchasing Department:
- a. Notarized affidavit
 - b. Contract
 - c. Insurance Certificate
 - d. Proof of filing of Performance and Payment Bond with Power of Attorney, if Public Works, and,
 - e. Resolution, if incorporated.

ARTICLE 4

EXAMINATION OF BIDDING DOCUMENTS

- 4.1 Each bidder shall examine the bidding documents carefully and, not later than seven days prior to the date for receipt of bids, shall make written request to the Owner for interpretation or correction of any ambiguity, inconsistency or error therein which he may discover. Any interpretation or correction will be issued as an Addendum by the Owner. Only a written interpretation or correction by Addendum shall be binding. No bidder shall rely upon any interpretation or correction given by any other method.

ARTICLE 5

SUBSTITUTIONS

- 5.1 Each bidder represents that his bid is based upon the materials and equipment described in the bidding documents.

MANUFACTURER'S NUMBERS OR TRADE NAMES:

- 5.2 Where a manufacturer's product is named or specified, it is understood that "or equal" shall apply, whether stated or not. Such name and number is meant to establish the standard of quality desired and does not restrict bidders to the specific brand, make, manufacturer, or specification named; and are set forth and convey to prospective bidders the general style, type, character, and quality of product desired; and that equal products will be acceptable. The University of Louisiana at Monroe shall be sole judge as to whether or not the material is equal to that specified.

ARTICLE 6

REJECTION OF BIDS

- 6.1 The bidder acknowledges the right of the Owner to reject any or all bids and to waive any informality or irregularity in any bid received. In addition, the bidder recognizes the right of

the Owner to reject a bid if the bidder failed to furnish any required bid security, or to submit the data required by the bidding documents, or if the bid is in any way incomplete or irregular.

ARTICLE 7

AWARDS

- 7.1 Awards may not be made to any person, firm, or company in default of any contract. Said person, firm, or company shall be considered non-responsible bidders and may be reinstated and awards made to them only after they have given evidence of good faith and have satisfactorily completed their obligations.

PUBLICIZING AWARDS

- 7.2 Written notice of award shall be sent to the successful bidder. In procurement over \$25,000, each unsuccessful bidder shall be notified of the award provided that he/she submitted with his/her bid a self-addressed envelope requesting this information. Notice of award will be made a part of the procurement file.

RIGHT TO PROTEST

- 7.3 Any person who is aggrieved in connection with the solicitation or award of a contract shall protest to the Director Purchasing. Protests with respect to a solicitation shall be submitted in writing at least two days prior to the opening of bids on all matters except housing of state agencies, their personnel, operations, equipment, or activities pursuant to R.S. 39:1643 for which such protest shall be submitted at least ten days prior to the opening of bids. Protests with respect to the award of a contract shall be submitted in writing within fourteen days after contract award.

AUTHORITY TO RESOLVE PROTESTS:

- 7.4 Prior to the commencement of an action in court concerning any controversy, the Director of Purchasing or his designee shall have the authority, to resolve the protest of any aggrieved person concerning the solicitation or award of a contract. This authority shall be exercised in accordance with regulations.

ARTICLE 8

PERFORMANCE BOND AND LABOR AND MATERIAL PAYMENT BOND

- 8.1 Performance and Payment Bonds shall be required on Public Works projects with an expected cost greater than \$50,000. Performance and Payment Bonds, when required, shall be provided in an amount of 100% of the contract price. Performance and Payments Bonds shall be required by the successful bidder. Any surety bond required shall be written by a surety or insurance company currently on the U. S. Department of the Treasury Financial Management Service list of approved bonding companies which is published annually in the Federal Register. For any Public Works projects, no surety or insurance company shall write a bond which is in excess of the amount indicated as

approved by the U. S. Department of the Treasury Financial Management Service list. The surety bond written for a Public Works project shall be written by a surety or insurance company that is currently licensed to do business in the State of Louisiana.

- 8.2 The bidder shall require the attorney in fact who executes the required bonds on behalf of the surety to affix thereto a certified and current copy of his power of attorney indicating the monetary limit of such power.

RECORDING OF BOND AND CONTRACT

- 8.3 The Contractor shall record the Contract and Performance Bond with the Clerk of Court in Ouachita Parish and provide the Purchasing Department with proof of filing.

ARTICLE 9

PAYMENT

- 9.1 Payment will be made by The University of Louisiana Monroe.
- 9.2 The contractor will be required to provide a Clear Lien Certificate from the Ouachita Parish Clerk of Court, a process that may take an average 45 days for final payment.

ARTICLE 10

TAXES

- 10.1 Applicable taxes are to be included in lump sum bid.

ARTICLE 11

GUARANTEE

- 11.1 The materials and labor under this contract, as described in the specifications, shall be guaranteed by the Contractor for a period of one year from date of its acceptance against defects of materials or workmanship. Any defects which develop during this period shall be properly repaired or replaced without cost to the Owner as soon as possible.

ACCEPTANCE

- 11.2 The guarantee covering materials and labor under this contract will begin the date a Notice of Acceptance is issued to the Contractor by The University of Louisiana at Monroe.

ARTICLE 12

CHANGES IN THE WORK

- 12.1 A Change Order is a written order to the Contractor signed by the Owner, issued after execution of the Contract, authorizing a Change in the Work or an adjustment in the Contract Sum or the Contract Time. The Contract Sum and the Contract Time may be changed only by Change Order. A Change Order signed by the Contractor indicates his

agreement therewith, including the adjustment in the Contract Sum or the Contract Time. Any Change Order not signed by the Owner will be considered null and void.

- 12.2 The Owner, without invalidating the Contract, may order changes in the Work within the general scope of the Contract consisting of additions, deletions or other revisions, the Contract Sum and the Contract Time being adjusted accordingly. All such changes in the Work shall be authorized by Change Order, and shall be performed under the applicable conditions of the Contract Documents.
- 12.3 Any change order in excess of the contract limit as defined herein shall be let out for public bid. The term contract limit as used herein shall be equal to the sum of \$30,000 per project. When the Change Order is negotiated it shall be fully documented and itemized as to cost, including material quantities, material costs, insurance, employee benefits, other related costs, profit and overhead. Where certain unit prices are contained in the initial contract no deviation shall be allowed in computing negotiated change order cost.

SUPPLEMENTARY CONDITIONS

ARTICLE 1

CONTRACTOR

CONTRACTOR'S LICENSE

- 1.1 On any bid amounting to \$50,000 or more, the Contractor shall certify that s/he is licensed under Act 377 of the 1976 Louisiana Regular Legislative Session and show the contractor license number and the bid number on the front portion of the envelope; except projects financed, partially or wholly, with Federal Funds, provided that any successful Bidder before signing Contract thereon, files application for a license and pays the fee as provided in this Act and complies with all terms and provisions of this Act and with the rules and regulations of the Licensing Board.

CONTRACTOR'S AFFIDAVIT

- 1.2 In accordance with the Louisiana R.S. 38:2190 - 2220, if the Contract is awarded to the successful Bidder, the bidder shall, at the time of the signing of the Contract, execute the AFFIDAVIT included in the Contract Documents.

INTEREST

- 1.3 There shall be no payment of interest on money owed.

ARTICLE 2

PAYMENTS AND COMPLETION

SUBSTANTIAL COMPLETION

- 2.1 The Owner will issue a NOTICE OF ACCEPTANCE for the Contractor to record with the Clerk of Court in Ouachita Parish.

FINAL COMPLETION AND FINAL PAYMENT

- 2.2 The Contract is to provide that the contractor is not to be paid more than ninety percent (90%) of the amount of the contract upon completion of the work. The Contractor shall record the NOTICE OF ACCEPTANCE with the Ouachita Parish Clerk of Court and shall furnish a CLEAR LIEN CERTIFICATE from the Clerk of Court within forty-five days after recordation of NOTICE OF ACCEPTANCE. At that time, the remaining ten percent (10%) will be paid.

LIQUIDATED DAMAGES

- 2.3 The Owner will suffer financial loss if the Project is not substantially complete on the date set forth in the CONTRACT DOCUMENTS. The Contractor (and/or Surety) shall be liable

for and shall pay to the Owner Liquidated Damages for each calendar day of delay until the work is Substantially Complete.

The Completion Time stated in Consecutive Calendar Days and the Liquidated Damages stated in Dollars Per Day are listed in the PROPOSAL FORM

ARTICLE 3

INSURANCE

INSURANCE: Contractor shall procure and maintain for the duration of the contract insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder by the Contractor, his agents, representatives, employees or subcontractors. **The cost of such insurance shall be included in the Contractor's bid.**

A. MINIMUM SCOPE OF INSURANCE

Coverage shall be at least as broad as:

1. Insurance Services Office form number GL 0002 (Ed. 1/73) covering Comprehensive General Liability and Insurance Services Office form number GL 0404 covering Broad Form Comprehensive General Liability; or Insurance Services Office Commercial General Liability coverage ("occurrence" form CG 0001). **"Claims Made" form is unacceptable. The "occurrence form" shall not have a "sunset clause."**
2. Insurance Services Office form number CA 0001 (Ed. 1/78) covering Automobile Liability and endorsement CA 0025 or CA 0001 12 90. The policy shall provide coverage for owned, hired, and non-owned coverage. If an automobile is to be utilized in the execution of this contract, and the vendor/contractor does not own a vehicle, then proof of hired and non-owned coverage is sufficient.
3. Workers' Compensation insurance as required by the Labor Code of the State of Louisiana, including Employers Liability insurance.

B. MINIMUM LIMITS OF INSURANCE

Contractor shall maintain limits no less than:

1. Commercial General Liability: \$1,000,000 combined single limit per occurrence for bodily injury, personal injury and property damage.
2. Automobile Liability: \$1,000,000 combined single limit per accident, for bodily injury and property damage.
3. Workers Compensation and Employers Liability: Workers' Compensation limits as required by the Labor Code of the State of Louisiana and Employers Liability coverage.

C. BUILDER'S RISK COVERAGE

A General Contractor shall purchase and maintain property insurance upon the entire work included in the contract for an amount equal to the greater of the full-completed value or the amount of the construction contract including any amendments thereto. The general contractor's policy shall provide "ALL RISK" Builder's Risk Insurance (extended to include the perils of wind, collapse, vandalism/malicious mischief, and theft, including theft of materials whether or not attached to any structure.) The "ALL RISK" Builder's Risk Insurance must also cover architects' and engineers' fees that may be necessary to provide plans and specifications and supervision of work for the repair and/or replacement of property damage caused by a covered peril not to exceed 10% of the cost of those repair and/or replacements.

Flood coverage shall be provided by the Contractor on the first floor and below for projects North of the Interstate Corridor beginning at the Texas-Louisiana border at Interstate 10 East to the Baton Rouge junction of Interstate 12, East to Slidell junction with Interstate 10 to Louisiana-Mississippi border. Flood sub-limit shall equal an amount no lower than ten percent (10%) of the total contract cost per occurrence. Coverage for roofing projects shall not require flood coverage.

On projects South of this corridor, flood coverage shall be provided by the State of Louisiana, as the owner, through the National Flood Insurance Program (NFIP). The Contractor will be liable for the \$5,000 deductible on the NFIP policy from the Notice to Proceed date through the Notice of Final Acceptance date of the project.

A specialty contractor shall purchase and maintain property insurance upon the system to be installed for an amount equal to the greater of the full-completed value or the amount of the contract including any amendments thereto. The specialty contractor may provide an installation floater with the same coverage as the "ALL RISK" Builder's Risk Insurance policy.

The policy must include the interest of the Owner, Contractor and Subcontractors as their interest may appear. The contractor has the right to purchase coverage or self-insure any exposures not required by the bid specifications, but shall be held liable for all losses, deductibles, self-insurance for coverages not required.

Policies insuring projects involving additions, alterations or repairs to existing buildings or structures must include an endorsement providing the following:

In the event of a disagreement regarding a loss covered by this policy which may also be covered by the State of Louisiana policy of self-insurance or any commercial property insurance policy purchased by the State of Louisiana, Office of Risk Management (ORM) covering in excess of the State of Louisiana, policy of self-insurance, this company agrees to follow the following procedure to establish coverage and/or the amount of loss:

Any party to a loss may make written demand for an appraisal of the matter in disagreement. Within 20 days of receipt of written demand, this company and either ORM or its commercial insurance company shall each select a competent and

impartial appraiser and notify the other of the appraiser selected. The two appraisers will select a competent and impartial umpire. The appraisers will then identify the policy or policies under which the loss is insured and, if necessary, state separately the value of the property and the amount of the loss that must be borne by each policy. If the two appraisers fail to agree, they shall submit their differences to the umpire. A written decision by any two shall determine the policy or policies and the amount of the loss. Each insurance company (or ORM) agree that the decision of the appraisers and the umpire if involved, will be binding and final and that neither party will resort to litigation. Each of the two parties shall pay its chosen appraiser and bear the cost of the umpire equally.

D. DEDUCTIBLES AND SELF-INSURED RETENTIONS

Any deductibles or self-insured retentions must be declared to and approved by the Agency. At the option of the Agency, either: the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects the Agency, its officers, officials, employees and volunteers; or the Contractor shall procure a bond guaranteeing payment of losses and related investigations, claim administration and defense expenses.

E. OTHER INSURANCE PROVISIONS

The policies are to contain, or be endorsed to contain, the following provisions:

1. General Liability and Automobile Liability Coverage

- a. The Agency, its officers, officials, employees, Boards and Commissions and volunteers are to be added as "additional insured" as respects liability arising out of activities performed by or on behalf of the Contractor; products and completed operations of the Contractor, premises owned, occupied or used by the Contractor. The coverage shall contain no special limitations on the scope of protection afforded to the Agency, its officers, officials, employees or volunteers. It is understood that the business auto policy under "Who is an insured" automatically provides liability coverage in favor of The University of Louisiana at Monroe and State of Louisiana.
- b. Any failure to comply with reporting provisions of the policy shall not affect coverage provided to the Agency, its officers, officials, and employees, Boards and Commissions or volunteers.
- c. The Contractor's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.

2. Workers' Compensation and Employers Liability Coverage

The insurer shall agree to waive all rights of subrogation against the Agency, its officers, officials, employees and volunteers for losses arising from work performed by the Contractor for the Agency.

3. All Coverage

Each insurance policy required by this clause shall be endorsed to state that coverage shall not be suspended, voided, canceled by either party, or reduced in coverage or in limits except after thirty (30) days' prior written notice by certified mail, return receipt requested, has been given to the Agency.

F. ACCEPTABILITY OF INSURERS

Insurance is to be placed with insurers with an A.M. Best's rating of **"A- VI or higher"**. This requirement will be waived for workers' compensation coverage only for those contractors whose workers' compensation coverage is placed with companies who participate in the State of Louisiana Workers' Compensation Assigned Risk Pool or the Louisiana Workers' Compensation Corporation.

G. VERIFICATION OF COVERAGE

Contractor shall furnish the Agency with certificates of insurance affecting coverage required by this clause. The certificates for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. The certificates are to be received and approved by The University of Louisiana at Monroe before work commences. The University of Louisiana at Monroe reserves the right to require complete, certified copies of all required insurance policies, at any time.

H. SUBCONTRACTORS

Contractor shall include all subcontractors as insured under its policies or shall furnish separate certificates for each subcontractor. All coverage for subcontractors shall be subject to all of the requirements stated herein.

ARTICLE 4

QUALITY

STANDARD OF QUALITY

- 1.1 Where catalog numbers and/or manufacturer's names are referred to in the specifications, they are used for the purpose of conveying to the prospective bidders the type and design of equipment, or supplies desired; but it shall be understood that bidders may submit on other makes in lieu of that mentioned, providing such other item is similar in design and equal in quality. It is not expected that the items of all manufacturers shall conform exactly to every detail and dimension mentioned in the specifications; but the essential features of the items mentioned shall be provided in the items to be furnished.

Veteran-Owned and Service-Connected Disabled Veteran-Owned (Veteran Initiative) and Louisiana Initiative for Small Entrepreneurships (Hudson Initiative) Program

This procurement has been designated as suitable for Louisiana certified small entrepreneurship participation.

The State of Louisiana Veteran and Hudson Initiatives small entrepreneurship programs are designed to provide additional opportunities for Louisiana-based small entrepreneurship (sometimes referred to as LaVet's and SE's respectively) to participate in contracting and procurement with the state. A certified Veteran-Owned and Service-Connected Disabled Veteran-Owned small entrepreneurship (LaVet) and a Louisiana Initiative for Small Entrepreneurships (Hudson Initiative) are businesses that have been certified by the Louisiana Department of Economic Development. All eligible vendors are encouraged to become certified. Qualification requirements and online certification are available at https://smallbiz.louisianaforward.com/index_2.asp.

Bidders that are not eligible for certification are encouraged to use Veteran-Owned and Service-Connected Disabled Veteran-Owned and Hudson Initiative small entrepreneurship where sub-contracting opportunities exist. To be responsive to this solicitation, the bidder shall be either a Veteran-Owned or Service-Connected Disabled Veteran-Owned or Hudson Initiative small entrepreneurship or have put forth a good-faith effort to use certified Veteran-Owned or Service-Connected Disabled Veteran-Owned and Hudson Initiative small entrepreneurship as sub-contractors(s). By signing and submitting this bid, the bidder certifies compliance with this requirement.

For a good faith effort, written notification is the preferred method to inform Louisiana certified Veteran Initiative and Hudson Initiative small entrepreneurship of potential subcontracting opportunities. A current list of certified Veteran-Owned and Service-Connected Disabled Veteran-Owned and Hudson Initiative small entrepreneurship may be obtained from the Louisiana Economic Development Certification System at https://smallbiz.louisianaforward.com/index_2.asp. Additionally, a current list of Hudson Initiative small entrepreneurship, which have been certified by the Louisiana Department of Economic Development and have opted to enroll in the State of Louisiana Procurement and Contract (LaPAC) Network, may be accessed from <http://wwwprd.doa.louisiana.gov/osp/lapac/Vendor/srchven.asp>. You may then determine the search criteria (i.e. alphabetized list of all certified vendors, by commodities, etc.), and select "Smaller".

Copies of notification to at least three (or more) certified Veteran Initiative and Hudson Initiative small entrepreneurship will satisfy the notification requirements. Notification must be provided to the certified entrepreneurship by the bidder in writing no less than five working days prior to the date of bid opening. Notification must include the scope of work, location to review plans and specifications (if applicable), information about required qualifications and specifications, any bonding and insurance information and/or requirements (if applicable), and the name of a person to contact. If a certified Veteran-Owned or Service-Connected Disabled Veteran-Owned or Hudson Initiative small entrepreneurship was not selected, the bidder must certify and

maintain written justification of the selection process. The state reserves the right to request confirmation of this information at any time.

In the event questions arise after an award is made relative to the bidder's good faith efforts, the bidder will be required to provide supporting documentation to demonstrate its good faith subcontracting plan was actually followed. If it is at any time determined that the contractor did not in fact perform its good faith subcontracting plan, the contract award or the existing contract may be terminated.

Contractors will be required to report Veteran-Owned and Service-Connected Disabled Veteran-Owned and Hudson Initiative small entrepreneurship subcontractor or distributor participation and the dollar amount of each. *(Agencies should indicate their specific requirement, i.e. where to send information and when - with bid, after clear lien, etc.)*

The statutes (R.S 39:2171 *et. seq.*) concerning the Veteran Initiative may be viewed at <http://www.legis.state.la.us/lss/lss.asp?doc=671504>; and the statutes (R.S 39:2001 *et. seq.*) concerning the Hudson Initiative may be viewed at <http://www.legis.state.la.us/lss/lss.asp?doc=96265>. The rules for the Veteran Initiative (LAC 19:VII.Chapters 11 and 15) and for the Hudson Initiative (LAC 19:VIII.Chapters 11 and 13) may be viewed at <http://www.doa.louisiana.gov/osp/se/se.htm>.

The State requires competitive pricing, qualifications, and demonstrated competencies in the selection of contractors.

DIVISION 1 - GENERAL REQUIREMENTS

A. **University of Louisiana at Monroe Intramural Field Complex Enhancement.**

- The University of Louisiana at Monroe (ULM) seeks bids from qualified, Louisiana licensed contractors for the construction of several enhancements to the ULM Intramural Field Complex located at 4711 Bon Aire Drive, Monroe, LA 71209.
- Detailed construction specifications and drawings are attached that specify the entire scope of work. The contractor is responsible for field verification of all measurements, quantities, etc.
- All questions and requests for clarification shall be submitted in writing to the ULM purchasing department at least fourteen (14) days prior to the bid date. If necessary the University will issue an addendum to provide answers and clarifications.
- A mandatory pre-bid meeting will be held at the Intramural Field Complex by the concession stand. The meeting will be held Tuesday, April 20, 2010 at 10:00 AM. All bidders must sign the attendance sheet at the pre-bid meeting to be allowed to submit a bid for this project.
- The University will provide drawings and specifications to prospective bidders in electronic format at no charge. The contractor shall be responsible for printing and reproducing these documents. The University will not provide hard copies of these drawings and specifications.
- The University will be using the Intramural Field Complex through June 30, 2010. Construction activities cannot begin on this project until July 1, 2010. The contractor may begin assembling materials on site prior to this date provided the materials are stored in a location and manner that does not interfere with the University using these fields. All work must be completed no later than Friday, October 29, 2010. No additional days will be given for any cause. Liquidated damages will apply at a rate of \$500 per day for each day required beyond this date to complete the work.
- The University will continue to utilize the Intramural Field Complex during this project. The contractor shall limit their construction and storage areas to allow the use of the actual fields for the University. The contractor shall also have to post warning signs and barriers as necessary to ensure that students, faculty, staff, and the general public avoid these areas.
- All material finish and color selections must be approved in writing by the University prior to the contractor ordering these materials.
- Contractor shall be responsible for any and all damage to the existing site and facilities that is caused by this project. The contractor shall carefully document existing site conditions and existing damages prior to commencing work. The contractor shall repair all damage to its original, undamaged condition prior to completing this project.

- Contractor shall be required to adhere to all University safety and health policies. Contractor shall fully comply with all applicable laws, rules, regulations, permits, etc. This includes but is not limited to the following: the contractor must use an OSHA approved lockout / tagout program that meets or exceeds the University's policy, the contractor shall properly label all chemical containers used during the project, the contractor shall have a material safety data sheet (MSDS) for each product used during the project, etc. All employees shall wear fall protection equipment as required when working at elevated levels. All employees will not be allowed to use tobacco products on the project site. Contractor, subcontractors, material suppliers and all employees must be properly trained and fully comply with occupational safety and health regulations. Any accidents, incidents, near misses, etc. will be reported to the University project coordinator immediately and the University may investigate these events. The University reserves the right to require the contractor to remove any employee from the project if the employee is observed violating safety rules, regulations, policies, etc.
- Contractor shall dispose of all construction debris, trash, and other materials in compliance with all applicable laws, rules, regulations, permits, etc.

B. LAWS, RULES AND REGULATIONS

1. Contractor shall comply with all applicable federal, state, local and University laws, ordinances, rules and regulations and shall: furnish and pay for all required permits, licenses and bonds; pay all charges and fees, and give all notices necessary and incidental to the due and lawful work required under this project.

C. ALTERNATES

1. Base Bid

D. SITE INSPECTIONS AND PROJECT MEETINGS

1. Site Inspections

Each bidder by making a bid represents that s/he has visited the site and familiarized themselves with the local conditions under which the work is to be performed.

2. Pre-Work Conference

Prior to the Contractor beginning any work on this project, the University will conduct a Pre-Work Conference to review and approve the Contractor's work schedule and inform the Contractor of any special conditions, controls and regulations that apply to the project.

E. TEMPORARY FACILITIES AND CONTROLS

1. Safety Conditions

The Contractor shall post adequate warning signs and maintain safety lights as required to warn persons of hazardous conditions.

2. Security

The Contractor shall be responsible for security of his equipment, materials, etc., at the project site for the duration of the contract.

F. MATERIAL AND EQUIPMENT

1. Transportation and Handling

The Contractor shall provide for all transportation and handling required for the work on this project.

2. Storage and Protection

The Contractor shall be responsible for storage and protection of equipment and materials. The Contractor shall Protect all property of the Owner, and shall repair same, if damaged.

INDEMNIFICATION AGREEMENT

The _____ (Contractor) agrees to protect, defend, indemnify, save, and hold harmless the State of Louisiana, all State Departments, Agencies, Boards and Commissions, its officers, agents, servants and employees, including volunteers, from and against any and all claims, demands, expense and liability arising out of injury or death to any person or the damage, loss or destruction of any property which may occur or in any way grow out of any act or omission of _____ (Contractor), its agents, servants, and employees, or any and all costs, expense and/or attorney fees incurred by _____ (Contractor) as a result of any claim, demands, and/or causes of action except those claims, demands, and/or causes of action arising out of the negligence of the State of Louisiana, all State Departments, Agencies, Boards, Commissions, its agents, representatives, and/or employees. _____ (Contractor) agrees to investigate, handle, respond to, provide defense for and defend any such claims, demand, or suit at its sole expense and agrees to bear all other costs and expenses related thereto, even if it (claims, etc.) is groundless, false or fraudulent.

Accepted by _____

Company Name _____

Signature _____

Title _____

Date Accepted _____

Is Certificate of Insurance Attached? _____ Yes _____ No

Contract No. 50006-271 For The University of Louisiana at Monroe

Purpose of Contract: Intramural Field Complex Enhancement Project

Pre-Bid Conference

Where: The University of Louisiana at Monroe Intramural Complex, Concession Stand area,
4711 Bon Aire Drive, Monroe, LA 71209.

When: Tuesday, April 20, 2010

Time: 10:30 a.m.

This signed statement certifies that the vendor named below has visited the job site and is familiar with all conditions surrounding fulfillment of the specifications for this project.

Vendor's Company Name

ULM Project Name

Vendor's Signature

ULM Representative

Present this form to Project Manager at Pre-Bid Conference. Return this signed form with your bid response.

LIQUIDATED DAMAGES:

The undersigned agrees that the Owner may retain the sum of five hundred dollars (\$500) from the amount of the Compensation to be paid him for each day after the above stated completion date, Sundays and Holidays included, that the work remains incomplete. This amount is agreed upon as the proper measure of Liquidated Damages which the Owner will sustain per day by the failure of the undersigned to complete the work at the stipulated time and is not to be construed in any sense as a penalty.

If this proposal shall be accepted and the undersigned shall fail to execute the contract and furnish performance bond as herein provided, then the proposal guarantee shall become the property of the University; otherwise, the said proposal guaranty shall be returned to the undersigned.

Bidder certifies that he has visited the job site at The University of Louisiana at Monroe, and is fully aware of what is expected of the successful bidder (s).

Louisiana Contractor's License Number

Firm Name`

Authorized Signature

Title

Phone/Fax Numbers

Date

STATE OF LOUISIANA
PARISH OF OUACHITA

NAME _____
LOCATION _____

AFFIDAVIT

Before me, the undersigned authority, duly commissioned and qualified within and for the state and parish aforesaid, personally came and appeared _____ representing _____ who, being by me first duly sworn deposed and said that he has read this affidavit and does hereby agree under oath to comply with all provisions herein as follows:

PART I

Section 2220 of Part II of Chapter 10 to Title 38 of the Louisiana Revised Statutes of 1950 as amended.

(1) That affiant employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by the affiant whose services in connection with the construction of the public building or project or in securing the public contract were in the regular course of their duties for affiant; and

(2) That no part of the contract price received by affiant was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the affiant whose services in connection with the construction of the public building or project were in the regular course of their duties for affiant.

PART II

Section 2190 of Part I of Chapter 10 of Title 38 of the Louisiana Revised Statutes of 1950 as amended.

The affiant, if he be an architect or engineer, or representative thereof, does not own a substantial financial interest, either directly or indirectly, in any corporation, firm, partnership, or other organization which supplied materials for the construction of a public building or project when the architect or engineer has performed architectural or engineering services, either directly or indirectly, in connection with the public building or project for which the materials are being supplied.

For the purpose of this Section, a "substantial financial interest" shall exclude any interest in stock being traded on the American Stock Exchange or the New York Stock Exchange.

That affiant, if subject to the provisions of this section, does hereby agree to be subject to the penalties involved for the violation of this section.

PART III

That affiant does hereby state that he has read and agrees to comply with and be subject to the provisions of Part V of Chapter 10 of Title 38 of the Louisiana Revised Statutes of 1950, being Sections 2290 through 2296 of Title 38 as amended.

Signature of Affiant: _____

SWORN TO AND SUBSCRIBED BEFORE ME THIS _____ DAY OF _____, 200_____.

Signature of Notary: _____

The University of Louisiana at Monroe
Monroe, Louisiana

This Agreement, made and executed, on this _____ day of the month _____ in the year of our Lord, TWO THOUSAND and TEN, by and through _____, The University of Louisiana at Monroe, the Party of the First Part, and hereinafter designated as "University" and _____, Contractor, domiciled and doing business in _____, Party of the Second Part, and hereinafter designated as Contractor.

WITNESSETH, That, in consideration of the covenants and agreements herein contained to be performed by the parties hereto and of the payments hereinafter agreed to be made, it is mutually agreed as follows:

The Contractor shall and will provide and furnish all materials, equipment and labor and perform the work required to complete in a thorough and workmanlike manner, to the satisfaction of the University, project entitled _____, in strict accordance with the Plans and Specifications which are on file in the Purchasing Department at The University of Louisiana at Monroe. The bid on this project, numbered _____, was opened on _____, at _____. The plans and specifications and the Proposal Form are made a part hereof as fully as if set out herein and hereby become a part of this contract. Contract amount is \$_____.

It is agreed and understood between the parties hereto that the Contractor agrees to accept and the University agrees to pay for the work at the price stipulated in said Proposal, such payment to be in lawful money of the United States, and the payment shall be made at the time and the manner set forth.

Performance will begin _____

The University of Louisiana at Monroe

BY: _____

TITLE: _____

BY: _____

TITLE: _____

LOUISIANA UNIFORM PUBLIC WORK BID FORM

TO: The University of Louisiana at Monroe
Administration Building, Room 1-29
700 University Avenue
Monroe, LA 71209

BID FOR: Intramural Field Complex
Enhancement Project

The undersigned bidder hereby declares and represents that she/he; a) has carefully examined and understands the Bidding Documents, b) has not received, relied on, or based his bid on any verbal instructions contrary to the Bidding Documents or any addenda, c) has personally inspected and is familiar with the project site, and hereby proposes to provide all labor, materials, tools, appliances and facilities as required to perform, in a workmanlike manner, all work and services for the construction and completion of the referenced project, all in strict accordance with the Bidding Documents prepared by: The University of Louisiana at Monroe and dated: April 13, 2010

Bidders must acknowledge all addenda. The Bidder acknowledges receipt of the following **ADDENDA**:

No. ____ Dated: _____ No. ____ Dated: _____ No. ____ Dated: _____

BASE BID: For all work required by the Bidding Documents (including any and all unit prices but not alternates) the sum of:

_____ Dollars (\$ _____)

ALTERNATES: For any and all work required by the Bidding Documents for Alternates.

Alternate No. 1 (Owner to provide description of alternate and state whether add or deduct) for the lump sum of:

_____ Dollars (\$ _____)

Alternate No. 2 (Owner to provide description of alternate and state whether add or deduct) for the lump sum of:

_____ Dollars (\$ _____)

TOTAL BID: Base Bid plus Alternates, if applicable, listed above:

_____ Dollars (\$ _____)

NAME OF FIRM OR JOINT VENTURE: _____

ADDRESS OF BIDDER: _____

LOUISIANA CONTRACTOR'S LICENSE NUMBER: _____

NAME OF AUTHORIZED SIGNATORY OF BIDDER: _____

TITLE OF AUTHORIZED SIGNATORY OF BIDDER: _____

AUTHORIZED SIGNATURE OF BIDDER *: _____

DATED: _____

* If someone other than a corporate officer signs for the Bidder/Contractor, a copy of a corporate resolution or other signature authorization shall be required for submission of bid. Failure to include a copy of the appropriate signature authorization, if required, may result in the rejection of the bid unless bidder has complied with La. R.S. 38:2212(A)(1)(c) or RS 38:2212(O) .

BID SECURITY in the form of a bid bond, certified check or cashier's check as prescribed by LA RS 38:2218.A is attached to and made a part of this bid. If a bid bond is provided it shall be on the attached form and only on the attached form.

BID BOND
FOR
INTRAMURAL FIELD COMPLEX ENHANCE PROJECT

Date: _____

KNOW ALL MEN BY THESE PRESENTS:

That _____ of _____,
as Principal, and _____, as
Surety, are held and firmly bound unto the
_____ (Obligee), in the full and just sum of
five (5%) percent of the total amount of this bid, including all alternates, lawful money of the United
States, for payment of which sum, well and truly be made, we bind ourselves, our heirs, executors,
administrators, successors and assigns, jointly and severally firmly by these presents.

Surety represents that it is listed on the current U. S. Department of the Treasury Financial Management Service list of approved bonding companies as approved for an amount equal to or greater than the amount for which it obligates itself in this instrument or that it is a Louisiana domiciled insurance company with at least an A - rating in the latest printing of the A. M. Best's Key Rating Guide. If surety qualifies by virtue of its Best's listing, the Bond amount may not exceed ten percent of policyholders' surplus as shown in the latest A. M. Best's Key Rating Guide.

Surety further represents that it is licensed to do business in the State of Louisiana and that this Bond is signed by surety's agent or attorney-in-fact. This Bid Bond is accompanied by appropriate power of attorney.

THE CONDITION OF THIS OBLIGATION IS SUCH that, whereas said Principal is herewith submitting its proposal to the Obligee on a Contract for:

NOW, THEREFORE, if the said Contract be awarded to the Principal and the Principal shall, within such time as may be specified, enter into the Contract in writing and give a good and sufficient bond to secure the performance of the terms and conditions of the Contract with surety acceptable to the Obligee, then this obligation shall be void; otherwise this obligation shall become due and payable.

PRINCIPAL (BIDDER)

SURETY

BY: _____
AUTHORIZED OFFICER-OWNER-PARTNER

BY: _____
AGENT OR ATTORNEY-IN-FACT(SEAL)

PART ONE - GENERAL

RELATED WORK SPECIFIED ELSEWHERE

Bidding and/or Negotiation Requirements, General Conditions of the Contract, Supplementary Conditions, pertinent portions of sections in Division 1 of the Project Specifications and the Drawings shall apply to the Work of this Section.

WORK INCLUDED

Submit Subcontractor Information Data, Shop Drawings, Product Data, Samples and Schedule of Values as required by Contract Documents in accordance with requirements specified herein.

SUBCONTRACTOR INFORMATION DATA

SCOPE: Furnish "Subcontractor Information Data" found under General Contractor Documents, as printed in these Specifications, within 48 hours of Bid Date.

SHOP DRAWINGS

Where Shop Drawings are required for submittal under individual sections, drawings shall be submitted and presented in clear and thorough manner as follows:

A. Drawings: Provide Shop Drawings with all information required in accordance with submittal requirements found under individual sections of Project Manual Specifications.

B. Details: Details shall be identified by reference to sheet and detail, schedule or room numbers shown on Contract Drawings.

C. Required Number: One (1) set in reproducible form (sepia) and four (4) sets of prints.

Architect will mark any corrections and comments on reproducible sepia and return mark up sepia and one (1) copy of prints to the contractors.

If directed, submit one (1) set of correct Shop Drawings in reproducible form (sepia).

Note: Begin no fabrication or work which requires submittals until the architect checks submittals and shop drawings for compliance with design requirements.

PRODUCT DATA

Where Product Data, brochures, descriptive literature, color charts, etc. are required for submittal under individual sections, submit as follows:

- A. Preparation:**
 - 1. Clearly mark each copy to identify pertinent products or models.**
 - 2. Show performance characteristics and capacities.**
 - 3. Show dimensions and clearances required.**
 - 4. Show wiring or piping diagrams and controls.**
- B. Required Number: Submit six (6) copies.**

SAMPLES

Where samples are required for submittal under individual sections, submit as follows:

- A. Office Samples: Samples shall be of sufficient size and quantity to clearly illustrate.**
 - 1. Functional characteristics of product, with integrally related parts and attachment devices.**
 - 2. Full range of color, texture and pattern.**
- B. Required Number: Submit three (3) copies.**

SUBMISSION REQUIREMENTS

Make Submittals promptly in accordance with approved schedule, and in such sequence as to cause no delay in Work.

Submittals shall contain the following information:

- A. Date of submission and dates of any previous submissions.**
- B. Project Title and Architect's Commission Number.**
- C. Names of:**
 - 1. Contractor**
 - 2. Supplier**
 - 3. Manufacturer**
- D. Identification of product by Project Manual Specification section number.**
- E. Field dimensions, clearly identified as such.**
- F. Applicable standards, such as A.S.T.M.**
- G. Identification of deviations from Contract Documents.**
- H. Contractor's stamped, signed and dated as to his review and approval.**
(NOTE: Architect shall not review shop drawings until Contractor has made his review and approval.)

RESUBMISSION REQUIREMENTS

Make any corrections or changes in submittals required by Architect and resubmit until approved. Resubmission requirements are same as notes above for submissions with following addition requirements:

- A. Shop Drawings and Product Data:**
 - 1. Revise initial changes or data, and resubmit.**
 - 2. Indicate any revisions on resubmittals.**
 - 3. Indicate any changes which have been made other than those requested by Architect.**
- B. Samples: Submit new samples as required for initial submittal.**

ARCHITECT DUTIES

Architect shall check submittals and shop drawings for “compliance with design requirements” only.

Architect to review submittals with reasonable promptness and in accord with schedule. Architect to approval stamp and initial or signature, and indicate approval of submittal or requirements for resubmittal. Architect to return to Contractor for distribution, or for resubmission.

PART TWO - PRODUCTS

NOT APPLICABLE

PART THREE - EXECUTION

NOT APPLICABLE

SECTION 02282 - TERMITE CONTROL

PART ONE - GENERAL

DESCRIPTION

Provide soil treatment for termite control under and around buildings or construction as described below.

Provide termite treatment on existing wood sleeper system at auditorium once existing flooring is removed and prior to installation of new wood floor.

RELATED WORK SPECIFIED ELSEWHERE

General & Supplementary Conditions, Special Requirements:

Earthwork: Section 02200

Cast-in-Place Concrete: Section 03300

QUALITY ASSURANCE

Applicator shall be registered or licensed as required by state or other governing jurisdictions.

Applicator shall comply with termite control requirements of the state or other governing jurisdictions and with the requirements of this Specification where it exceeds other requirements. Should Government Regulations outlaw or restrict use of any pesticide as specified, Contractor shall submit revised and equal treatment to Architect prior to application.

GUARANTEE

Deliver to the Owner a bonded guarantee that the below listed requirements have been met and that re-treatment will be made, without cost to Owner, on evidence of termite infestation within a period of five (5) years after date of Substantial Completion. Re-treatment material shall be same quality and rate of concentration as originally used materials.

SUBMITTALS

Before proceeding with the work, provide Architect with manufacturer's mixing and application instructions.

PART TWO - PRODUCTS

MATERIALS

Apply one of the listed chemicals, at not less than the designated concentration, to areas to be treated:

Chlorpyrifos (Dursban TC): 1.0 percent applied in water emulsion.

Permethrin (Dagnet FT & Torpedo): 0.5 – 1.0 percent applied in water emulsion.

Equity: 0.5 – 1.0 percent applied in water emulsion.

Pryton: 0.75 percent applied in water emulsion.

Tribute: 0.5 percent applied in water emulsion.

Biflex TC: 0.06 – 0.12 percent applied in water emulsion.

Demon: 0.25 – 0.50 percent applied in water emulsion.

Prevail: 0.30 – 0.60 percent applied in water emulsion.

Tenure: 0.75 – 1.0 percent applied in water emulsion.

Proprietary materials, which pass a 5-year test by U. S. Forest Service or U. S. Department of Agriculture, and contain one or more of the above chemicals in the proper concentrations, and can provide proof that no toxic effect will result in human, beneficial plant or animal life, are acceptable. Contractor shall not use any material that is banned or prohibited by any U. S. Government Agency. If any such material is called for herein, Contractor shall notify Architect, who will select an acceptable substitute.

MIXES

Follow manufacturer's mixing instructions.

PART THREE - EXECUTION

INSPECTION

Notify Architect 48 hours prior to planned application of chemicals. Do not proceed without approval of Architect.

Do not begin work until all fill under slabs has been compacted, and after piping and other sub-slab work is in place. Treat before installation of vapor barrier.

Verify that soil is in friable condition with moisture content low enough to permit absorption of toxicant solution.

APPLICATION

Apply to areas beneath concrete floor slabs on grade or fill, and along both sides of interior and exterior grade beams.

Apply also at expansion joints, construction joints, conduit, piping and other construction penetrations through slabs.

SLABS ON GRADE: One (10) gallon to each ten (10) square feet of area within building lines.

GRADE BEAMS: One (1) gallon (each side) for each for (4) lineal feet of grade beam.

EXPANSION AND CONSTRUCTION JOINTS: Two (2) gallons for each five (5) linear feet of joint.

PIPE CONDUITS & OTHER SLAB PENETRATIONS: Two (2) gallons for each seven (7) square feet for a minimum radius of three (3) feet from penetration.

PROTECTION

Allow not less than 12 hours for drying after application, before beginning concrete placement or other construction activities.

Cover areas immediately following application of material.

Provide protection necessary to prevent human and animal contact with treatment materials and with treated surfaces.

Protect persons from injury and property damage. Satisfactorily repair or remove and replace work that has been damaged.

CLEANING

Clean adjacent surfaces not intended for treatment from soil, stain and adhered materials. Remove and replace damaged work that cannot be restored to original conditions.

Remove excess material and debris from site.

END OF SECTION 02282

SECTION 02444 – CHAIN LINK FENCE

PART 1 – GENERAL

SCOPE

The work covered by this section of the specifications consists of furnishing all plant, labor, equipment, appliances, and materials, and in performing all operations necessary to construct fences and gates complete, in strict accordance with this section of the specifications and the applicable drawings, and subject to the terms and conditions of the Contract.

PART 2 – MATERIALS

Fence, Parts, & Gate: Provide a black POLYMER coating over entire parts. (Verify color with owner)

Posts, rails and braces: All tubular members shall comply with provision of ASTM-A120 for weight and coating. All structural shapes shall comply with provisions of ASTM-A123 for galvanized coating.

End, corner, and pull posts: Fence up to and including 16'0" in height - 2 7/8" o.d. pipe, 5.79 lbs. per lin. ft. Fence over 16'0" in height – 4" o.d. pipe, 9.11 lbs. per lin. ft. or as indicated on contract drawings.

Line posts: (10'0" max. spacing) Fabric up to 8'0" in height: H-Section weighing 2.70 lbs. per lin. ft. 2.375 o.d. pipe weighing 3.65 lbs. per lin. ft. Fabric over 8'0" in height: H-Section weighing 4.10 lbs. per lin. ft. 2.375 o.d. pipe weighing 3.65 lbs. per lin. ft.

Gate posts.

Gate leaves up to and including 6'0" wide: 2.875" o.d. pipe weighing 5.79 lbs. per lin. ft.

Gate leaves over 6'0" and up to and including 13'0" wide: 4" o.d. pipe weighing 9.10 lbs. per lin. ft.

Gate leaves over 13'0" and up to and including 18'0": 6 5/8" o.d. pipe weighing 18.97 lbs. per lin. ft.

Gate leaves over 18'0": 8 5/8" o.d. pipe weighing 28.55 lbs. per lin. ft.

Top rail: 1,660: o.d. pipe weighing 2.27 lbs. per lin. ft. Furnish in manufacturer's standard lengths of approx. 21'0" with couplings, approx. 6" long for each joint, one coupling in each 5 to have expansion spring. Provide means for attaching top rail securely to each gate, corner, pull and end posts. Top rail shall form continuous brace from end to end of each run of fence.

Tension wire: (In lieu of top rail and/or bottom of fabric) 9 gage galvanized coiled spring wire (to match fabric finish).

Provide diagonal cross-bracing consisting of adjustable length truss rods on gates where necessary to provide frame rigidity without sag or twist.

Gate hardware: Provide the following hardware and accessories for each gate:

Hinges – pressed steel or malleable iron to suit gate size, non-lift-off type, offset to permit 180 degree gate opening. Provide 1 pair of hinges for each leaf.

Latch – forked type or plunger-bar type to permit operation from either side of gate. Provide padlock eye as integral part of latch.

Keeper – provide keeper for all vehicle gates, which automatically engages the gate leaf and holds it in the open position until manually released.

Double gates – provide gate stops for all double gates, consisting of mushroom type or flush plate with anchors. Set in concrete to engage the center drop rod or plunger bar. Provide locking device and padlock eyes as an integral part of the latch, requiring one padlock for locking both gate leaves.

Miscellaneous Material and Accessories

Wire ties: For tying fabric to line posts, use 6 ga. steel wire clips for H-Section posts and minimum 9 ga. aluminum or steel wire ties for tubular posts spaced 14" o.c. For tying fabric to rails and braces, use 9 ga. aluminum wire ties spaced 24" o.c. For tying fabric to tension wire, use 11 ga. hog rings spaced 24" o.c.

Concrete: Provide concrete consisting of Portland cement complying with ASTM-C 150, aggregates complying with ASTM-C 33, and clean water. Mix materials to obtain concrete with a minimum 28-day compressive strength of 2500 psi, using at least 4 sacks of cement per cu. yd., 1" maximum size aggregate, maximum 3" slump, and 2% to 4% entrained air. Prepare to conform to ASTM-C 94.

Padlocks: Shall be solid jacket, extruded brass metal with interchangeable cores and 1 ¾ inch cases. All padlocks furnished shall be keyed alike. Two keys shall be furnished for each padlock.

PART 3 – INSTALLATION

GENERAL

The fence shall be installed on previously prepared surfaces to line and grade as indicated. Fence installation shall be in accordance with the fence manufacturer's written installation instruction except

as modified herein.

Excavation: Excavation for concrete-embedded items shall be of the dimensions indicated or specified. Post-holes shall be cleared of loose materials. Waste material shall be spread where directed.

Post setting: Posts shall be set plumb and in alignment. Posts shall be set in concrete bases of dimensions indicated or shall have a diameter not less than three times the outside diameter of the post, but not less than 9 inches and shall extend into firm undisturbed soil a minimum of 36 inches. Concrete shall be thoroughly compacted so as to be free of voids and finished in a dome. Straight runs between braced posts shall not exceed 500 feet. Concrete shall be cured a minimum of 72 hours before any further work is done on the posts.

Supporting arms: Supporting arms shall be of the design as required. Supporting arms shall be installed as recommended by the manufacturer. In addition to manufacturer's standard connections, supporting arms shall be securely anchored to posts in such manner that will prevent easy removal with hand tools. Studs driven by low-velocity explosive-actuated tools may be used with steel, wrought iron, ductile iron, or malleable iron. Studs driven by an explosive-actuated tool will not be used with gray iron or other material that will be fractured.

Top and bottom reinforcing wires: Top and bottom reinforcing wires shall be installed before installing chain-link fabric and shall be pulled taut.

Fabric: Fabric shall be pulled taut and secured to the top rail or top wire and bottom wire close to both sides of each post and at intervals of not more than 24 inches on centers. Fabric shall be secured to posts using stretcher bars and ties or clips or by integrally weaving to integral fastening loops of end, corner, pull, and gate posts for the full length of each post.

Barbed wire: N/A

Gates: Install gates plumb, level and secure for full opening without interference. Install ground-set items in concrete for anchorage, as recommended by the fence manufacturer. Adjust hardware for smooth operation and lubricate where necessary. Gate from existing fence can be used.

Tie wires: Use U-shaped clips of wire, securely fastened around pipe to which attached, clasping pipe and fabric firmly. Bend ends of wire to minimize hazard to persons or clothing.

Fasteners: Install nuts for tension band and hardware bolts on side of fence opposite fabric side.

Padlocks: Padlocks shall be furnished for gate opening and shall have chains that are securely attached to the gate or gate posts. Padlocks shall be keyed alike and two keys shall be provided for each padlock.

PART 4 – GROUNDING

Whenever a power line passes over the fence, a ground rod shall be installed directly below the point

of crossing and 500 feet each side of this point. Ground rods shall also be installed, along the fence at 500-foot (maximum) intervals when a power line parallels and is over or adjacent to the fence, in which case each segment of fence shall be grounded. The ground rod shall be a 5/8 inch nominal (1/2 inch minimum) diameter copper-weld steel rod 8 feet long and shall be driven vertically until the top of rod is approximately 6 inches below the top of ground. An AWG No. 6 solid copper conductor shall be firmly attached to the rod and to the fence in such a manner that each element of the fence is grounded. The cost for the required ground rod installation shall be included in the price bid for fence and gate items.

END OF SECTION 02444

SECTION 02500 - SITE DRAINAGE

PART ONE - GENERAL

DESCRIPTION

Provide site drainage, including concrete drainage structures, galvanized, asphalt coated metal pipe, and cast-iron frames and grates, as shown on the drawings and specified herein.

RELATED WORK SPECIFIED ELSEWHERE

General & Supplementary Conditions, Special Requirements:

Earthwork: Section 02200

Cast-in-Place Concrete: Section 03300

QUALITY ASSURANCE

All products to meet specifications requirements.

Laboratory testing of controlled fill, compaction tests and concrete tests.

SUBMITTALS

Furnish certificates that products meet specification requirements.

JOB CONDITIONS

Pour no concrete unless ambient temperature is 40 degrees and rising.

Do not deposit concrete on wet or frozen ground.

PART TWO - PRODUCTS

MATERIALS

STORM DRAINAGE: As per latest edition of the "Louisiana Standard Specifications for Roads and Bridges". Provide drainage piping as shown on drawings.

PIPE FITTINGS: Provide fittings meeting "Louisiana Standard Specification for roads and bridges".

CAST IRON FRAMES & GRATES:

Shall be: EJIW model no. V-7395 ADA compliant frame and grate or approved equal.

SIDEWALK DRAIN: N/A

CONCRETE CATCH BASINS: N/A

PART THREE - EXECUTION

INSPECTION

Verify locations and depths of all lines and other utilities before excavating for drainage system.

Verify finish elevations and flow lines of drainage structures and pipe to assure proper drainage of entire system.

The drainage system shall be subject to a visual inspection by the Architect / Engineer prior to the placement of the backfill. Contractor shall notify the Architect / Engineer 48 hours in advance to schedule inspection.

INSTALLATION

Construct drainage structures as detailed.

Lay pipe to true and proper grades and alignment as shown on plans and as directed by the Architect, in a trench, the width of which is not less than twelve (12) nor more than eighteen (18) inches greater than the outside diameter of the pipe.

The bottom of the trench shall be shaped to fit the contour of the pipe for a depth equal to at least one-tenth (1/10) the outside diameter of the pipe.

Lay all pipe with the bell upstream.

Use carborundum saw to make all cuts if using concrete pipe.

Apply joint material in a manner as recommended by manufacturer.

Wrap all joints with filter fabric prior to backfilling.

Do not backfill trench until pipe and joints are inspected and approved by Architect. Replace all damaged pipe and unsatisfactory joints.

Backfill and compact as specified in Section 02220.

PATCHING, FINISHING & CLEAN-UP

Patch and grout all exposed joints in pipe and drainage structure.

All concrete pipe edges to be neat and smooth.

Finish exposed cast-in-place concrete as specified.

Clean out drainage structures and grout bottom to slope to pipe. Clean all pipe.

Clean metal frames and gratings.

END OF SECTION 02500

SECTION 03300 - CAST-IN-PLACE CONCRETE

PART ONE - GENERAL

DESCRIPTION

Provide all structural and architectural concrete and related items where shown on drawings, as required, and as specified herein, including:

Concrete beams, floor slabs, vapor barrier, foundations, embedded items and anchors, concrete finishes and miscellaneous concrete.

RELATED WORK SPECIFIED ELSEWHERE

General & Supplementary Conditions, Special Requirements:

Testing Laboratory Services: Section 01410

Portland Cement Concrete Paving & Walks: Section 02520

Concrete Formwork: Section 03100

Concrete Reinforcement: Section 03200

Membrane Waterproofing: Section 07110

QUALITY ASSURANCE

Materials and workmanship for Portland Cement concrete shall conform to the requirements of the Portland Cement Association's "Specifications for Plain and Reinforced Concrete", latest revisions. Other publications (latest revisions), and American Concrete Institute's "Building Code Requirements for Reinforced Concrete, ACI 318-95," latest revision.

Testing Laboratory, employed by Owner, shall perform testing of cast-in-place concrete.

CONCRETE FIELD TESTS: Four (4) 6 inch by 12 inch concrete cylinders shall be molded for each 50 cubic yards or each day's pour if less than 50 cubic yards. Cylinders shall remain undisturbed in a secure location on the site for 24 hours after which they shall be removed to the testing lab by laboratory personnel. Two of the cylinders shall be tested at 7 days and two at 28 days. Failure of the concrete to meet the specification requirements may result in its complete removal and replacement at the Contractor's expense. Cost of re-test, if any, will be at the Contractor's expense.

MATERIALS

PORTLAND CEMENT: ASTM C-150, Type 1. Use same brand of cement throughout entire project.

COURSE AGGREGATE: Hard, durable, un-coated crushed stone or gravel, ASTM C-33-CIT.

Maximum size aggregate: 3/4 of minimum clear spacing between reinforcing bars, but not larger than 1-1/2" for all footings, walls and slabs on grade and 3/4" for all other structural and architectural concrete.

SAND: ASTM C-33-59.

MIXING WATER: Clean, potable, free of oil, acid, vegetable matter, alkalies, salts.

ADMIXTURE: Water reducer and Set Retarder and/or Accelerator: Shall be used in all concrete except footings. USE NO CHLORIDES.

EXPANSION JOINT FILLER: 1/2" thick, except where noted 1" thick, pre-molded, nonextruding material complying with Federal Specification HH-F-341, Type I, wide enough to complete separate abutting concrete members. Provide where detailed and where concrete walks about other concrete surfaces and at internals not exceeding 36 feet.

CURING COMPOUND: ASTM C-309 approved by Architect. Use Type I, Clear, for interior surfaces and Type 2, White Pigmented, for exterior surfaces.

CHEMICAL HARDENER: CE-204, colorless, sprayed or poured and squeegeed. Sonneborn LAPIDOLITH, Meadows PENA-LITH or L & M CHEM-HARD acceptable.

SEALANT: Two component polysulfide sealant shall be used on all vertical and horizontal surfaces. All primers and installation shall be in strict accordance with manufacturer's instructions. All sealants shall be compatible with back-up material.

METAL ACCESSORIES: Include all spacers, chairs holsters, ties, and other devices necessary for properly placing, spacing, supporting, fastening reinforcement in place. Metal accessories shall be galvanized where legs will be exposed in finished concrete surfaces. Accessories shall conform to requirements of the Concrete Reinforcing Steel Institute (CRSI) "Manual of Standard Practice for Reinforced Concrete Construction."

STRENGTH, PROPORTION, MIXES OF CONCRETE

All concrete shall be 4000 psi @ 28 days. Keep water-cement ratio to a minimum, do not exceed 6-1/2 gallons per bag of cement including free moisture in aggregate, slump between 3" and 5".

However, the Mix Design shall be proportioned to achieve an average strength of 750 psi higher than the design strength.

No fly ash will be accepted.

Concrete shall have a minimum of 5 1/2 sacks of cement per cubic yard of concrete, or as required to attain the PSI where shown.

MIXING CONCRETE

Ready-mixed, ASTM C-94, delivery by trucks with power-driven mixers. Plant operator must guarantee not over 15 minute interval between trucks during any pouring operations. Do not add water after truck leaves plant. Do not use concrete held in mixer longer than one (1) hour.

A copy of each truck delivery ticket shall be made available by truck driver to Architect's representative and/or Testing Laboratory Representative at the site. Minimum delivery ticket information shall include:

1. Ticket Number.
2. Mix proportions, including admixtures.
3. Time of batching.
4. Number of cubic yards of concrete on truck.

PART THREE - EXECUTION

PREPARATION

Cast-In-Place Items: Before concrete placing begins, accurately space, position and secure cast-in-place anchorages, wire ties, reinforcing, dowels, expansion joints, construction joints, etc., including bolts, for securing adjoining or collateral materials to concrete work.

Contractors for other trades requiring built-in connections, sleeves, slots, chases, recesses, rough. ins, etc., in concrete work will be required to furnish material and information regarding size and location before forms are erected. Install sleeves in beams only on approval of Architect.

Install vapor barrier in strict accordance, and specified in Section 07110.

INSERTS AND FASTENING DEVICES FOR OTHER WORK

Provide for installation of inserts, conduit, pipe, sleeves, drains hangers, metal ties, shelf angle supports, anchors, bolts, angle guards, stair nosing, dowels, thimbles, metal reglets, nailing strips, blocking, grounds and other fastening devices required for attachment of other work. Properly locate in cooperation with other trades and secure in position before concrete is placed.

BASES FOR EQUIPMENT

Provide concrete for bases as required for Mechanical & Electrical equipment items. Refer to Architectural, Structural, Mechanical and Electrical Drawings for quantity and size. Coordinate with Mechanical & Electrical Contractor.

TEMPERATURE LIMITATIONS

COLD WEATHER: Do not place concrete when ambient temperature is 40 degrees F. or below, and falling. It may be placed when the temperature is 40 degrees F. or above and rising, providing there is no reason to expect a drop in temperature to below 40 degrees F. within 24 hours of the conclusion of the pour.

HOT WEATHER: Do not place concrete when concrete temperature exceeds 90 degrees F. when measured prior to placement on site.

DEPOSITING CONCRETE

Begin placing concrete only after forms, reinforcement, vapor barrier and other conditions are approved by Architect, and all pipes, conduits, sleeves, thimbles, hangers, anchors, flashing and other work required have been properly installed and forms properly cleaned and wetted.

Remove hardened concrete and foreign materials from inner surfaces of conveying equipment before concrete is placed.

Remove water from the space to be occupied by concrete, divert any continuous flow to a sump or remove by pumping.

Convey concrete from mixer to forms as rapidly as practicable without segregation or loss of ingredients. Maximum slope of chutes: 1 vertical to 2 horizontal. Provide baffle plate and spout or tremies to prevent separation. Concrete shall not be allowed to drop more than four (4) feet.

Deposit concrete as nearly as practicable in its final position in such a manner as to maintain a plastic surface, which is approximately horizontal, and avoid flow along forms. Set screeds to bring slabs to proper levels, required thickness, tamp with suitable tool to force coarse aggregate layers of such thickness that no concrete will be deposited against concrete which has hardened.

If a section cannot be placed continuously, locate keyed construction joints at points approved by Architect. Before depositing new concrete against old, re-tighten forms, clean hardened surfaces and cover with a coating of neat cement grout.

Thoroughly compact beam concrete during and immediately after depositing by means of approved mechanical vibration in accordance with PCA Specifications ST 26.

When construction joints are required by the drawings, adjacent slab sections shall not be placed on the same day.

CEMENT FINISHES

EXPOSED VERTICAL SURFACES: Form and pour exposed surfaces so that surfaces are finished in appearance when forms are stripped. It is not the intention that these surfaces be rubbed, except to eliminate voids, joints in forms and any loose flakes. Rub such defects to present a complete finished surface, free from visible lines, and from marks. Should any honeycombs appear, neatly cut out and repair in such a manner as to match the adjoining surfaces in texture, rub if necessary.

EXPOSED SURFACES REQUIRING PAINT FINISH: Apply rubbed finish on all exposed concrete surfaces scheduled to receive paint finish. Fine and other projections shall be carefully removed, offsets leveled, and damaged places repaired. Surfaces shall then be rubbed with cement or abrasive bricks and water. Do not use mortar or grout in the rubbing process. Remove from marks and similar blemishes and leave the surface finish uniformly smooth and clean. Use the same cement for patching as used in original concrete.

CEMENT FINISH FLOORS AND FLOORS TO RECEIVE FLOOR COVERINGS: Agitate concrete sufficiently to work aggregate into the body of the slab and to work to the surface sufficient mortar to allow proper floating, trowel with steel trowel until set, leave smooth and level. No dust coat shall be added.

Concrete floors scheduled to receive thin set ceramic tile shall receive a steel trowel and fine broom finish.

NONSLIP BROOM FINISH: Apply a nonslip broom finish to exterior concrete platforms, sidewalks, steps, and ramps, and elsewhere as indicated. Coordinate required final finish with Architect before application.

CURING

Protect against frost and rapid drying for at least seven days after placing.

As long as forms remain in place, keep concrete well wetted. When forms are removed, treat with curing compound.

Vertical concrete shall be protected by applying an approved curing compound as directed by the manufacturer, and horizontal concrete shall be protected by covering with 8 mil polyethylene sheeting with joints lapped 4 inches and sealed with pressure sensitive tape. Weight sheeting in position.

SEALED CONCRETE FINISH: Apply to interior concrete floors where shown on drawings or in schedules. Apply liquid chemical-hardener after complete curing and drying of the concrete surface. Dilute liquid hardener with water, and apply in 3 coats, Saniseal 100 by Master Builders or an approved equal. Apply chemical hardeners in accordance with manufacturer's printed instructions.

LINTELS, BOND BEAMS AND JOINT BEARING LOCATIONS

Concrete shall consist, by weight, of one (1) part Cement and one and one-half (1-1/2) parts of sand and two (2) parts of clean pea gravel. Slump shall not extend three (3) inches.

PATCHES

Fill and finish any honey-combed surfaces with a mortar of one part cement and two parts sand. Where honey-combing or other surface blemishes occur in concrete to be exposed to view, rub to present a uniform appearance.

CLEANING

Upon completion of concrete work, all forms, equipment, and rubbish resulting from this work shall be removed from the premises. All concrete shall be left clean and free of defects.

END OF SECTION 03300

SECTION 04100 - MORTAR & GROUT

PART ONE - GENERAL

DESCRIPTION

Provide mortar, additives and mixing as specified or required for masonry work.

RELATED WORK SPECIFIED ELSEWHERE

General & Supplementary Conditions, Special Requirements:

Masonry Reinforcement & Accessories: Section 04150

Brick Masonry: Section 04210

Concrete Unit Masonry: Section 04220

QUALITY ASSURANCE

Mortar mixing shall be supervised at all times by competent, experienced person. Mortars shall be mixed in strict accordance with manufacturer's instructions.

SUBMITTALS AND SAMPLE PANELS

Lay up 4'-0" x 4'-0" sample panels of each type of masonry and mortar (maximum of 3 panels for each type) as specified in Division 4. Correct or modify samples until suitable to and approved by Architect. Contractor shall submit to Architect in written form, exact proportions of mortar mix (es) including amount of color pigment, used on project.

PRODUCT DELIVERY, STORAGE & HANDLING

Deliver only new material to Project Site in original, unopened containers with manufacturer's brand name clearly marked thereon. Premixed masonry cement shall be approved by Architect.

Store materials under cover in a dry place. Cement, line and air-setting mortars shall be stored in watertight sheds with elevated floors. Material in bags showing evidence of water contact shall not be used.

ENVIRONMENTAL CONDITIONS

Do not lay masonry when outside temperature is below 40 degrees F. or is expected to be below 40 degrees F. within 24 hours after placement. If previous conditions are anticipated and written approval to proceed has been obtained from the Architect, take following precautions:

Sand and mixing water shall be heated to product mortar temperature between 40 degrees F. and 120 degrees F. Maintain temperature of mortar on boards above freezing.

PART TWO - PRODUCTS

MATERIALS

Mortar shall be same as others as the University verify with owner and match existing.

PORTLAND CEMENT: ASTM C-150, Type I.

MASONRY CEMENT: ASTM C-91, Type II, non-staining for limestone.

HYDRATED LIME: ASTM C-207, Type S.

FINE AGGREGATE: Sand, ASTM C-144

WATER: Drinkable, from a public source.

ADMIXTURES: No air-entraining admixtures or cementitious materials containing airentaining admixtures shall be used in mortar. No anti-freeze compounds or other substances shall be used in mortar to lower freezing point. Calcium chloride or admixtures containing calcium chloride shall not be used in mortar in which reinforcement, metal ties or anchors are imbedded.

TYPE S MORTAR REQUIRED: All load bearing masonry wall installation.

TYPE N MORTAR REQUIRED: All non-load bearing and veneer masonry wall installations.

MORTAR PIGMENT: Magnolia Mortar Mix or LoneStar Mortar Mix.

MIXES

Do not change source of mortar materials during course of work.

Do not combine methods of proportioning mortar types. Use same method for duration of project.

Waterproofing required for mortar in exterior building wall masonry only, including masonry back-up and face brick.

Unless specified otherwise, proportions are by volume. One sack of cement considered equal to one cubic foot.

TYPE S MORTAR (ASTM C-270 proportions by volume): One (1) part Portland Cement, (1/2) part Hydrated Lime; aggregate not less than 2 1/4 and not more than 3 times the sum of the volumes of the cement and lime used.

TYPE N MORTAR: (ASTM-270 proportions by volume): One (1) part Portland Cement;. One (1) part Hydrated Lime; aggregate not less than 2 1/4 and not more than 3 times the sum of the volumes of the cement and lime used.

GROUT: One (1) part Portland Cement; 1/10 part hydrated lime; 3 parts sand; 2 parts size 3/8 inch gravel (ASTM C-404) and enough water to produce an 8 inch to 10 inch slump (per ASTM C-143) and 2500 psi compressive strength in 28 days.

PART THREE - EXECUTION

Mortar mix may be varied with Architect's permission depending on weather conditions. Measure all ingredients in containers of known capacity. Do not measure by shovel fulls.

MIXING

Except as otherwise approved for small batches, do mixing in mechanically operated batch mixers of drum type in which water can be accurately and uniformly controlled. Allow at least 5 minutes mixing time, 2 minutes for mixing dry materials, 3 minutes for continuing mixing after water has been added. Do not permit volume of mixed materials per batch to exceed manufacturer's rated capacity of mixer drum in cu. ft. of mixed material. Empty drum completely before placing succeeding batch therein.

Mix cementitious materials and aggregate with amount of water consistent with satisfactory workability.

If mortar begins to stiffen from evaporation or from absorption of a part of mixing water, retemper mortar immediately by adding water and remixing. Use mortar with 2-1/2 hours of initial mixing. Do not use mortar after it has begin to set.

For mortar for grouting and poured fills increase water quantity to produce consistency required for pouring; stir continuously to prevent aggregate segregation.

POINTING GROUT: Prepare with as dry consistency as will produce grout sufficiently plastic to be worked into joints.

MIXING EQUIPMENT: Keep mixing equipment clean and free of set materials, to maintain a uniform quality in the mortar, and to preclude accelerating the set of subsequent batches. If there is a considerable lapse between mixing of each batch of mortar, partly fill mixer with water and leave it in operation.

INSTALLATION

Provide matching mortar from existing building at the University. Verify with owner.

MASONRY GROUT & CONCRETE FILL REINFORCEMENT

Grout fill solid all pilaster, bond beams or lintel conditions as indicated on drawings.

END OF SECTION 04100

SECTION 04150 - MASONRY REINFORCEMENT & ACCESSORIES

PART ONE - GENERAL

DESCRIPTION

Provide masonry reinforcement and accessories as shown on drawings and specified herein.

RELATED WORK SPECIFIED ELSEWHERE

General & Supplementary Conditions, Special Requirements:

Concrete Reinforcement: Section 03200

Mortars & Grout: Section 04100

Brick Masonry: Section 04210

Concrete Unit Masonry: Section 04220

Metal Fabrications: Section 05500

QUALITY ASSURANCE

Masonry reinforcement material shall meet requirements of the Southern Building Code Congress and the International Conference of Building Officials.

PRODUCT DELIVERY, STORAGE & HANDLING

Deliver, receive, store and handle materials in a manner to prevent damage. Replace all damaged items

PART TWO - PRODUCTS

MATERIALS

CONTINUOUS JOINT REINFORCEMENT

Prefabricated drywall type, manufactured of mill galvanized units, 14 gauge.

Provide continuous reinforcing at 16" o.c. vertically & horizontally each way for all masonry walls or as indicated on drawings.

SINGLE WYTHE WALLS:

Hohmann & Barnard, Inc. – Truss reinforcement Truss-Mesh #120

Masonry Reinforcing Corp. – Truss type Series 300 single wythe (2 wire).

CAVITY WALLS:

Hohmann & Barnard, Inc. – Adjustable Eye-Wire Truss type #170 w/ rectangular adjustable wall ties

Masonry Reinforcing Corp. – Truss type Series 900 w/ rectangular adjustable wall ties.

COLUMN TIES @ CMU'S - Hohmann & Barnard, Inc. – #359F w/ rectangular adjustable wall ties #302W (Column Web Tie). Widths shall be determined by wall thickness.

Heckmann– #315B w/ rectangular adjustable wall ties #318.

COLUMN TIES @ BRICK - Hohmann & Barnard, Inc. – #359F w/ rectangular adjustable wall vee ties. Widths shall be determined by wall thickness.

Heckmann– #315B w/ rectangular adjustable wall vee ties #316.

WEEP HOLES: As shown on architectural plans. Shall be full depth of brick joint.

CORNER AND TEE-JOINT REINFORCEMENT: Use prefabricated corner, and tee sections to form continuous reinforcement around corners and for anchoring abutting walls and partitions. Materials in corner and tee sections to correspond to type and design of joint reinforcement used or indicated on drawing details otherwise.

MASONRY GROUT & CONCRETE FILL REINFORCEMENT

STEEL REINFORCING BARS: Supplied in Section 03200.

CONTROL JOINT MATERIAL

RUBBER CONTROL JOINTS:

Hohmann & Barnard – #RS-Standard (RS-12) (Extruded rubber material)

Sandel Manufacturing – 2013 rubber control joint

PART THREE - EXECUTION

INSTALLATION

CONTINUOUS JOINT REINFORCEMENT

Install 16” o.c. vertically, full height of all concrete masonry walls and partitions and where shown on drawings. Install additional reinforcing as called for below:

Install full head & bed joints.

Install in first bed joint immediately above and below openings and extend minimum 24” beyond each side of opening.

Install in bed joints of first and second courses below bearing line in bearing walls when wall receives uniformly distributed floor or roof load.

Do not lay joint reinforcement across vertical control or expansion joints.

Do not install joint reinforcement which is dirty or which has other coating which will reduce or destroy bond.

MASONRY GROUT & CONCRETE FILL REINFORCEMENT

STEEL REINFORCING BARS: Shall be placed in bond beams or pilasters as indicated on drawings. Reinforcing bars shall extend minimum of 7" beyond each side of openings. Support bars with galvanized metal bar positioners.

CONTROL JOINTS

Provide vertical control joints in masonry where shown on elevations. Control joints shall be same width as masonry joint width.

Install in accordance with manufacturer's recommendations.

ADJUSTABLE MASONRY WALLS TIES:

Screw attach adjustable wall ties to studs at 16" o.c. vertical and 16" o.c. horizontal or as shown on drawings.

END OF SECTION 0415

SECTION 04200 – UNIT MASONRY

PART ONE - GENERAL

DESCRIPTION

Provide brick masonry as shown on the drawings and specified herein.

Also included is the installing of items furnished under other sections such as bolts, anchors, nailing blocks, inserts, flashing, steel lintels expansion joints and reinforcing.

RELATED WORK SPECIFIED ELSEWHERE

General & Supplementary Conditions, Special Requirements:

Concrete Reinforcement: Section 03200

Mortars & Grouts: Section 04100

Masonry Reinforcement and Accessories: Section 04150

Flashing & Sheetmetal: Section 07600

Sealants & Calking: Section 07900

Hollow Metal Doors & Frames: Section 08110

QUALITY ASSURANCE

Sample Panel: Lay up 4'-0" x 4'-0" sample panels of each type of brick and mortar (maximum of 3 panels for each type) as specified in Division 4. Correct or modify samples until suitable to and approved by Architect. Contractor shall submit to Architect in written form, exact proportions of mortar mix(es) including amount of color pigment, used on project. Demolish and remove from site after completion and final acceptance of brick work.

SUBMITTALS

Samples: Submit full size samples of face brick to show range of colors, textures, finishes and dimensions. For approved equal prior to bidding see Instructions to Bidders Article 3.3.

Certificates: Furnish manufacturer's certification that brick furnished meet or exceed requirements of this specification.

Manufacturer's Data: Furnish manufacturer's recommended brick cleaning agent and application procedure.

Store brick above ground on level platforms. Cover and store in approved manner which will protect them from contact with soil and from weather exposure. Do not use materials with stained faces in exposed work.

ENVIRONMENTAL CONDITIONS

Do not lay brick when air temperature is below 40 degrees F. or is expected to be below 40 degrees F. within 24 hours after placement.

If previous conditions are anticipated and written approval to proceed has been obtained from the Architect, take following precautions:

Sand and mixing water shall be heated to produce mortar temperature between 40 degrees F. and 120 degrees F. Maintain temperature of mortar on boards above freezing. Maintain an air temperature above 40 degrees F. on both sides of the masonry while masonry work is in progress and for a period of at least 48 hours after masonry work is completed.

During erection, keep walls dry by covering with a vapor barrier at end of each day, or during shutdown period. Covering to overhang at least 2'-0" on each side of wall and be anchored securely.

PART TWO - PRODUCTS

MATERIALS

FACE BRICK: All brick shall meet requirements of current ASTM Specifications C-216.

- Grade SW, Type FBS
- Size – Modular Vellour
- Brick shall be: 105 Golden Sunset from the Denton, Texas plant or approved equal. Boarder brick if used shall be (Santan Laparge).
- Brick indicated here is a Acme Brick Company product. Other brick companies shown below shall submit samples to be approved prior to bidding this project.
 - Acme Brick Company
P.O. 425
Fort Worth, TX 76101
 - Columbus Brick Company
P.O. 9630
Columbus, MS 39705
 - Arkansas Stone Company
1206 Arkansas Road
West Monroe, LA 71270
 - Old Mississippi Brick Company
P.O. Box 5262
Holly Springs, MS 38634

CONCRETE MASONRY UNITS: N/A

MORTAR: ASTM C-270-73, Refer to Section 04100.
Color to be selected by architect.

CLEANING AGENTS: As recommended by brick manufacturer.

INSPECTION

Examine foundations to assure surfaces to support brick work are at proper grades and elevations and free of all dirt and deleterious material.

Verify that initial absorption rate of brick is within acceptable limits.

Verify all base and spandrel flashing as well as anchors and ties are properly installed.

Do not proceed with laying of brick until unsatisfactory condition have been corrected.

PREPARATION

BRICK: Thoroughly wet all brick with clean water 24 hours before placement. Brick shall be damp when laid.

ANCHORS, TIES AND REINFORCEMENT: Remove all dirt, ice, loose rust, and scale prior to installation.

INSTALLATION

Layout work in advance, finish at corners with not less than a half brick.

Brick mason shall keep cavity free of debris and mortar accumulation.

Lay brick in running bond plumb, true to line and with level courses accurately spaced within allowable tolerances. Install reinforcing, anchors, and ties as specified.

Use masonry saws to cut and fit exposed units. Trowel cuts not acceptable.

Do not install cracked, broken or chipped masonry units exceeding ASTM allowances.

Stop off horizontal run by racking back in each course; toothing is not permitted.

Adjust units to final position while mortar is soft and plastic.

If units are displaced after mortar has stiffened, remove, clean joints and units or mortar and relay with fresh mortar.

Adjust shelf angles to keep work level and at proper elevation.

Provide pressure relieving joints by placing a continuous 1/8" foam neoprene pad under the shelf angle.

When joining fresh masonry to set partially set masonry:

- a: Remove loose brick and mortar.
- b: Clean and lightly wet exposed surface of set masonry prior to laying fresh masonry.

Install all lintels, anchors and flashing at proper locations, specified elsewhere.

PROTECTION OF WORK

Protect all concrete floor slabs by covering with 6 mil. polyethylene and 2" thickness of sand or dirt prior to starting masonry work.

Protect sills, ledges and offsets from mortar drippings or other damage during construction.

Remove misplaced mortar to grout immediately.

Protect face materials against staining.

Protect the door jambs and corners from damage during construction.

MORTAR BEDS

Lay brick with full mortar coverage on horizontal and vertical joints in all courses. Do not furrow bed joints.

Provide sufficient mortar on ends of brick to fill head joints.

Where adjustment to corners or jambs must be made after mortar has started to set, remove mortar and replace with fresh mortar.

JOINTS

Joints shall be 3/8", concave and tooled with 5/8" diameter steel tool as soon as mortar has set.

Three brick and three joints shall equal 8" vertically.

The average width of any three consecutive joints shall be 3/8".

All exposed brick shall be laid in Running Bond Pattern unless noted otherwise.

Lay brick in soldier, header, rowlock and other patterns where shown on drawings. Install 3/8" wide vertical control joints as indicated on drawings.

Space control joints not more than 20'-0" o.c. unless otherwise indicated.

Joints shall be in face brick wythe only, mortar-free and filled with sealant.

BUILT-IN WORK

Consult with other trades and make provisions that will permit installation of their work in manner to avoid cutting and patching. Build in work of other sections as necessary and as work progresses. Cutting and patching required for work of others to be done by masonry mechanics.

Set steel lintels in full beds of mortar. Lintels will be furnished under Section 05100: STRUCTURAL STEEL.

Furnish and install extruded alum. Brick drain at the bottom of the 2'-9 3/8" brick wall. Seal all around the drain with exterior sealer.

Build in control joints as shown on drawings.

Keep space open with temporary filler for expansion joints.

Coordinate installation of rigid insulation in cavity wall.

Coordinate installation of waterproofing and dampproofing of exterior face of interior wythe of all exterior walls to receive mastic specified in Section 07110.

CHASES N/A

Leave necessary opening for passage of pipes, drains, ducts, wires and utility lines. Form chases shown, required or directed. Do not proceed until extent and location of openings and chases required by other trades has been determined. At completion of work of other trades, return and solidly close openings. Before closing up pipe, duct or similar inaccessible spaces or shafts, remove rubbish and sweep out area.

WEEPHOLES

Where exterior wythe of cavity wall is supported by concrete, steel angles or where spandrel flashings are built into wall, form weepholes in mortar bed on which first course of masonry is to be placed. Space weepholes not over 32" o.c. Keep weepholes free of mortar and other obstructions.

CUTTING & PATCHING

Provide all chases, holes, etc., needed for Mechanical Contractors and Electrical Contractors. All work to be done by masonry mechanics.

REGLETS N/A

Where steel columns are in close proximity to masonry, provide clean, true reglets to receive angles or fins. Reglets shall be constructed to allow for free movement of metal fins. Where masonry abuts structural steel, provide allowance for expansion. Install all masonry insert reglets furnished under other sections of this specification.

LOOSE LINTELS: N/A

POINTING & CLEANING

Cut out any defective joints and holes in exposed masonry and repoint with mortar.

Dry brush masonry surface or clean with dry burlap after mortar has set at end of each days work and after final pointing.

Clean exposed unglazed masonry with stiff brush and clear water.

If cleaning by water does not produce satisfactory results, apply approved cleaning agent to same area, following manufacturer's recommendations.

When results are acceptable to Architect, complete cleaning of masonry.

Protect sash, metal lintels and other materials which may corrode when masonry is cleaned with acid solution.

Leave work area and surrounding surfaces clean and free of mortar spots, droppings and broken masonry.

END OF SECTION 04200

SECTION 04410 – CAST STONE

PART 1 - GENERAL

Description: Furnish all plant, labor, equipment and materials; and perform all operations in connection with the manufacturer and erection of all cast stone units including all anchors, clips, inserts, attachments, and reinforcement. Also included is cleaning and patching.

- A. Submittals: Manufacturer shall fabricate and deliver Cast Stone in accordance with approved shop drawings in a timely manner.
- B. Installing contractor shall unload, store, furnish all anchors, and set cast stone.

PART 2 – PRODUCTS

MANUFACTURER or an approved equal

Cates Castone Company
Tyler, TX 75703

B & B Cut Stone
Bossier City, LA

QUALITY ASSURANCE

Conform to PCI Manual, ANSI/ACI 318, PCI MNL-117, ANSI/AWI D1.1, ANSI/ASTM C31, ANSI/ASTM C143.

FABRICATION

- A. Samples of the Cast Stone specified will be representative of the general color range of color and finish by manufacturer.
- B. The cast stone will have minimum compressive strength of 5000 psi at 28 days of age, in accordance with ASTM C39. The concrete manufacturer shall be responsible for designing concrete mixes which shall produce an architecturally acceptable finish.
- C. Maintain plant records and quality control program during production of cast stone units.

COLOR AND FINISH

- A. Exposed surfaces shall exhibit a fine grain texture similar to natural stone. Bugholes and air voids will not be permitted.
- B. Finish to be acid etched on exposed surfaces to remove cement film prior to packaging for shipment.

C. Finish shall match existing stone.

REINFORCING

A. Reinforcement shall be galvanized or epoxy coated.

B. Area of reinforcement in panels shall not be less than 1/4 percent of the cross section area.

JOINTS

A. Stone joints (bed joints & vertical joints) should be 3/8".

B. Joint material should be a full bed of mortar at all bed joints as is flush vertical joints.

C. All joints with exposed tops or under relieving angles should be left open for sealant.

SETTING

A. Drench stone with clear running water just prior to setting.

B. Fill all dowel holes and anchor slots completely with mastic (as shown on details)

C. Sponge the face of each stone to remove excess mortar.

D. Protect stone while on the ground and after setting, from splashing, mortar and damage from other trades.

E. Provide flashing under cap stone as shown on details/drawings.

CLEANING AND REPAIR

A. Clean stone by wetting with clear running water and applying a solution of "Sure Klean #600" by ProSoCo Products, Inc. or equal. Follow manufacturer's instructions.

B. Repair obvious chips with touch-up materials supplied by the manufacturer.

END OF SECTION 04410

SECTION 05100 - STRUCTURAL STEEL

PART ONE - GENERAL

DESCRIPTION

Work included: Furnish, fabricate, mark for erection identification, pack, crate, erect, or otherwise properly prepare for shipment, and ship to the site all structural steel columns, beams, angles, anchor bolts, erection bolts, nuts, welding electrodes and other miscellaneous items required for structural steel frame, miscellaneous metal items or indicated on the Drawings, described in these Specifications, or otherwise required for proper completion of work.

RELATED WORK SPECIFIED ELSEWHERE

General & Supplementary Conditions

Testing Laboratory Services: Section 01400

Open-Web Steel Joists: Section 05200

Metal Fabrications: Section 05500

STANDARD

The AISC Specification for Design, Fabrication and Erection of Structural Steel for Buildings shall govern the work. Welding shall be in accordance with AWS Code DI .1 High strength bolting shall be in accordance with AISC Specification for Structural Joints Using ASTM A-325 or A-490 Bolts.

SUBMITTALS

SHOP DRAWINGS: Shall include all shop and erection details, and members and connections for any portion of the structure not shown on the contract drawings shall be detailed by the fabricator and indicated on the shop drawings. All welds shall be indicated by standard welding symbols of the AWS.

CERTIFICATION: Certified copies of mill test reports including names and locations of mills and shops, shall be furnished for all structural steel.

RESPONSIBILITY FOR ERRORS: The Contractor shall be responsible for all errors of detailing, fabrication, and for the correct fitting of the structural members.

QUALIFICATION OF WELDERS: Certification that each welder is qualified in accordance with AWS Code DI .1 shall be provided. Any welder shall be retested and recertified when the work of the welder creates a reasonable doubt as to his proficiency. Tests, when required, shall be conducted at no additional expense to the Owner. Recertification of the welder shall be submitted only after the welder has taken and passed the required retest.

PRODUCT HANDLING

Material shall be stored out of contact with the ground in such a manner and location as will minimize contamination and deterioration.

In the event of damage, immediately make all repairs and replacements necessary to the approval of the Architect and at no additional cost to the Owner.

PART TWO - PRODUCTS

MATERIALS

STRUCTURAL STEEL: ASTM Specification A-36 or A992.

STRUCTURAL TUBING: ASTM Specification A-500, Grade B

STEEL PIPE: ASTM Specification A-53, (Type E) (Type S), Grade B.

PAINT: Tnemec 10-99; Southern Coatings RIP 1-0988.

HIGH-STRENGTH BOLTS, (including nuts and washers): ASTM Specification A-325 or A-490.

BOLTS AND NUTS, (other than high-strength): ASTM Specifications A-307, Grade A.

PLAIN WASHERS, (other than those in contact with high-strength bolt heads and nuts): ANSI Standard B 18.22.1, type B.

STEEL CASTINGS: Comply with ASTM A27, Grade 65-35, medium-strength carbon steel.

ANCHOR BOLTS: Comply with ASTM A307, non-headed type with heavy hexagonal nuts unless otherwise indicated.

UNFINISHED THREADED FASTENERS: Comply with ASTM A307, Grade A, regular low-carbon steel bolts and nuts. Provide either hexagonal, or square, head and nuts, except use only hexagonal units for exposed connections.

ELECTRODES FOR WELDING: Comply with AWS Code, using ASTM A233 E-70 series electrodes.

Provide templates for precise location of anchor bolts and other items embedded in concrete foundations.

FABRICATION

Structural steelwork material shall be in accordance with the applicable provisions of the AISC Specification. Fabrication and assembly shall be done in the shop to the greatest extent possible.

Structural steelwork, except surfaces of steel to be encased in concrete surfaces to be field welded, shall be prepared for painting in accordance with the AISC Specification and primed with paint materials heretofore listed.

Bolts and washers of all types and sizes required shall be provided for completion of all field erection.

HIGH-STRENGTH BOLTED CONSTRUCTION: Install high-strength threaded fasteners in accordance with AISC “Specifications for Structural Joints using ASTM A325 or A490 Bolts”, using A325N bolts unless noted otherwise.

WELDED CONSTRUCTION: Comply with AWS Code for procedures, appearance and quality of welds, and methods used in correcting welded work.

Assemble and weld built-up sections by methods which will produce true alignment of axes without warp.

Provide holes required for securing other work to structural steel framing, and for the passage of other work through steel framing members, as shown on the Final Shop Drawings. Provide threaded nuts welded to framing, and other specialty items as shown to receive other work.

Cut, drill, or punch holes perpendicular to metal surfaces. Do not flame cut holes or enlarge holes by burning. Drill holes in bearing plates.

SHOP PAINTING

Shop paint all structural steel work, except those members or portions of members to be embedded in concrete or mortar. Paint embedded steel which is partially exposed on the exposed portions and the initial 5 cm (2”) of embedded areas only. Remove loose rust and mill scale by Hand Tool (SSPC-SP2) or Power Tool (SSPC-SP3) method. Prime with Tnemec 10-99 or Southern Coating RIP 1-0900 primer to minimum 2 mil dry thickness. See erection for field touch-up of primer.

PART THREE – EXECUTION

INSPECTION: Examine areas and conditions under which work of this Section will be performed. Correct conditions detrimental to proper execution of the work. Do not proceed until unsatisfactory conditions have been corrected.

PREPARATION: Clean concrete and masonry bearing surfaces free from bond-reducing materials, and then roughen to improve bond between bearing surfaces. Clean the bottom surfaces of base and bearing plates.

FABRICATION

Furnish anchor bolts and other connectors required for securing structural steel to foundations and other in-place work.

Furnish templates and other devices necessary for presetting bolts and other anchors to anchorage locations.

Bases and bearing plates shall be shop-welded to columns and members attached to concrete and masonry. Install slide-bearing plates and protect against damage in accordance with manufacturer’s written directions.

Splice members only where indicated unless, with the Architect's approval, splices not indicated would result in lower costs due to reduced shipping costs. Submit structural calculations signed by a structural engineer licensed in the State of Louisiana, for all splices not indicated.

Do not use gas cutting torches for correcting fabrication errors in the structural framing. Cutting will be permitted only on secondary members as acceptable to the Architect. Finish gas-cut sections equal to a sheared appearance with gas-cutting permitted.

ERECTION

Examine the areas and conditions under which work of this Section will be performed. Correct conditions detrimental to proper and timely completion of the Work. Do not proceed until unsatisfactory conditions have been corrected.

Provide temporary shoring and bracing members with connections of sufficient strength to bear imposed loads. Provide temporary guy lines to achieve proper alignment of the structures as erection proceeds.

Remove temporary connections and members when permanent members are in place and final connections are made.

Provide temporary planking and working platforms as needed for effective completion of the work of this Section.

Install anchor bolts and other connectors required for securing structural steel to foundations and other in-place work.

Clean concrete and masonry bearing surfaces free from bond-reducing materials, and then roughen to improve bond to surface. Clean the bottom surface of base and bearing plates. Set loose and attached base plates for structural members in wedges or other adjusting devices. Tighten anchor bolts after the supported members have been positioned and plumbed. Do not remove wedges or shims but, if protruding, cut off flush with the edge of the base or bearing plate prior to packing with grout. Pack grout solidly between surfaces and bases or plates to ensure that no voids remain. Finish exposed surfaces, protect installed materials, and allow to cure in strict compliance with the manufacturer's instructions as approved by the Architect.

Set structural frames accurately to the lines and elevations indicated. Align and adjust the various members forming a part of a complete frame or structure before fastening permanently. Clean the bearing surfaces and other surfaces which will be permanent contact before assembly. Perform necessary adjust for discrepancies in elevations and alignment. Level and plumb individual members of the structure within specified AISC tolerances.

Establish required leveling and plumbing measurements on the mean operating temperature of the structure. Make allowances for the difference between temperature at time of erection and the mean temperature at which the structure will be when completed and in service.

All ASTM A325 bolts in structural connections shall be tightened using the “turn-of-the-nut-method” or Calibrated Wrench Method” as required by AISC “Structural Joints using ASTM A325 or A490 Bolts.”

Slip joint bolts shall be tightened to a “snug fit” only and bolt threads burred or tack-welded to prevent loosening. Coat slip joint surfaces in contact with grease prior to bolt tightening.

FIELD TOUCH-UP: Inspect shop paint coat and touch up abrasions and paint all field welds to same standard as shop paint.

FIELD QUALITY CONTROL

HIGH-STRENGTH BOLT TEST: The testing and inspection agency shall inspect high-strength bolted connections and shall visually inspect field-welded connections, and shall prepare test reports for the Architect’s review. The testing agency shall conduct and interpret the tests and shall state in each report whether the inspected work complies with the requirements and shall specifically state all deviations there from.

Ten (10%) percent of bolted connections shall be randomly selected for inspection by inspection agency. Agency shall tighten one bolt by “Turn of the nut method” or Calibrated Wrench Method” as required by AISC “Structural Joints Using A325 or 490 Bolts.” The torque required to move this nut shall be used as the standard for the remainder to be tested. Movement of other test nuts before standard torque is reached shall constitute failure. If 5% of all nuts tested fail, then Contractor shall be required to test 100% of all high-strength bolts in all connections. All nuts and bolts failing shall be retightened and retested.

FIELD WELDING TESTS: All field welding shall be performed by “certified” welders. The Owner shall pay for all welding tests. A total of eight (8) shop welds shall be tested by “x” ray or ultrasonic, by an independent testing laboratory. A total of ten (10) field welds shall be tested by the ultrasonic or “x” ray method. If 10% of the tests are below 90% of that called for, all welds shall be tested and rewelded where required and retested until all welds pass.

CORRECTION: Correct deficiencies in structural steel work which inspections and test reports have indicated to be not in compliance with the specified requirements. Perform all additional tests required to reconfirm non-compliance of the original work and to show compliance of corrected work.

CLEAN-UP: Remove from the site and legally dispose of debris and waste materials resulting from operations under this section of the specifications.

END OF SECTION 05100

SECTION 06100 - ROUGH CARPENTRY

PART ONE - GENERAL

DESCRIPTION

Provide rough carpentry required to complete the work, including, but not limited to:

Bracing, supports and shoring required to support construction during formative stages.

Forming block-outs and setting inserts into concrete to accommodate fastenings.

Framing openings in and providing forming and supports for concrete lintels in concrete and masonry.

Providing all nailers, wood blocking and plywood in connection with metal decks, copings, roofing's and fascias.

Installation of metal door frames.

Providing openings, nailers, furring and grounds for items specified in other sections and indicated on drawings.

Installing blocking and concealed back-up for grab bars and handrails. Installing anchors, inserts, fasteners and other items furnished under other sections.

Coordinating and framing as required for installation and support of Plumbing, Heating, Ventilating, Air Conditioning and Electrical work.

Furnishing and setting of all rough hardware, such as shoes, dogs, spikes, bolts, stirrups, nails, lag screws, lagging bolts, anchors, etc., as indicated or required to hold woodwork together or to anchor or secure it to other materials and construction.

RELATED WORK SPECIFIED ELSEWHERE

General & Supplementary Conditions, Special Requirements:

Concrete Formwork: Section 03100

Finish Carpentry: Section 06200

Cabinetwork: Section 06402

Roofing: Division 7

Hollow Metal Frames: Section 08110

Painting: Section 09900

Miscellaneous Specialties: Division 10

QUALITY ASSURANCE

Lumber Grading rules and Wood Species to be in conformance with American Softwood

Lumber Standard PS20.

Grading rules of following associations apply to materials furnished under this Section:

Southern Pine Inspection Bureau (SPIB)

Western Wood Products Association (WWPA)

Softwood Plywood-Construction and Industrial PSI

Each piece of lumber and plywood shall have grade marked by association having jurisdiction under whose grading rules it is produced.

Preservative Treatment: AWPB Standards LP-2, above ground use.

Fire Hazard Classification: Underwriters' Laboratories, Inc., for treated lumber and plywood.

SUBMITTALS

FASTENERS: Shall be stainless or hot dipped galvanized with treated wood.

PRESSURE TREATED WOOD: Submit certification by treating plant stating chemicals and process used, net amount of salts retained, and conformance with applicable AWPB standards.

PRESERVATION TREATED WOOD: Submit certification for water-borne preservative that moisture content was reduced to 19% maximum, after treatment by the AWPB Standards.

PRODUCT DELIVERY, STORAGE AND HANDLING

Immediately upon delivery to job site, place materials in area protected from weather.

Store materials a minimum of 6" above ground on framework or blocking and cover with protective waterproof covering providing for adequate air circulation or ventilation.

Do not store seasoned materials in wet or damp portions of building. Protect sheet materials from corner breaking and damaging surfaces, while handling.

MATERIALS

LUMBER

Dimensions indicated and specified are nominal. Actual sizes to conform to N.B.S. PS20. Where dimensions are not indicated, sizes to be selected to meet structural requirements of strength and stiffness, subject to approval of Architect. End jointed lumber not acceptable.

MOISTURE CONTENT: 19% Maximum for air-dried stock.

SURFACING: Surface four sides. (S4S).

LUMBER GRADES: No. 2 grade or better Southern Pine or Douglas Fir standard grade.

PLYWOOD

GENERAL: Identify each panel with appropriate grade-trademark of American Plywood Association. Thickness as indicated on drawings. If none indicated, thickness shall be as required for span and loading.

EXTERIOR USE: N.B.S. PS 1 plywood, Construction, Group I, CD with exterior glue.

INTERIOR USE: CD grade.

OTHER MATERIALS

FASTENERS: Shall be stainless or hot dipped galvanized with treated wood.

BUILDING PAPER: Asphalt-saturated felt; ASTM D226, No. 15 non-perforated.

PRESERVATIVE TREATED WOOD: Water-borne salt preservatives, AWPB LB-2, above ground application. Each piece to bear mark identifying treatment and be acknowledged by the AWPB standards. Approved manufacturers are Koppers, Osmose, CSI, Arch, and U.S. Borax.

ROUGH HARDWARE

Provide rough hardware, including nails, screws, bolts, anchors, ties and metal fastenings as required for proper construction and erection of work, or proper type and size suitable for purpose intended and approved by Architect.

PART THREE – EXECUTION

INSPECTION

Verify that surfaces to receive rough carpentry materials are prepared to required grades and dimensions.

Do not proceed until all unsatisfactory conditions are corrected.

PREPARATION

Verify that all items requiring priming are painted before installation.

Verify correct location of pre-set anchor bolts and other features

Verify locations and sizes of openings required by other sections of the specifications.

Verify locations of blocking and reinforcement for grab bars, handrails, and any other specialty item included in Division 10.

INSTALLATION

Provide openings, blocking, rough bucks, nailers, grounds, furring and back-up for items furnished under other sections in accordance with manufacturer's recommendations and approved shop drawings.

Lay out, cut, fit and erect other rough carpentry as indicated on drawings and required.

Brace, plumb and level members in true alignment and rigidly secure in place with sufficient nails, spikes, screws and bolts as necessary.

BLOCKING: Install blocking to provide rigid and secure backing as detailed and necessary.

Wedge, align, and anchor blocking with countersunk bolts, washers and nuts or nails.

Locate blocking to facilitate installation of finishing materials, fixtures, specialty items and trim.

FURRING: Provide headers and other nailing members within furring framework. Install and shim furring to provide faces true to line and plumb.

ROUGH BUCKS: Provide rough wood bucks for all openings as indicated and required. Securely anchor in place with 3/8" bolts and washers at 36" o.c. max. and 6" max. from ends. Countersink bolt heads as required or indicated.

STRIPPING AND NAILERS FOR CABINETWORK: Provide stripping and nailers for cabinetwork as required. Anchor accurately and securely to back-up with toggle bolts or expansion bolts of required size at 24" o.c. max. and 6" o.c. max. from ends.

Use minimum of two bolts for each strip or nailer. Bolts shall extend into floor or wall full length of shields. Toggle bolts shall be used, drilling holes for same with high rpm. carborundum drill. Star drills will not be allowed.

GROUND: Provide grounds as indicated and required including those for Mechanical and Electrical ceiling and wall items.

FASTENERS: Shall be stainless or hot dipped galvanized with treated wood.

NAILERS ON MASONRY OR STEEL: Anchor nailers resting on masonry or steel with 3/8" bolts and washers at 36" o.c., unless indicated otherwise. Countersink bolt heads as required or indicated.

FASTENINGS TO CONCRETE OR MASONRY: Use power-actuated steel nails, expansion screws, toggle bolts, metal plugs, or metal inserts for installation of rough carpentry members to masonry or concrete construction.

Do not use wood plugs or nailing blocks for fastening grounds, or furring to concrete or masonry.

MASONRY OPENINGS: Wood centering or other necessary supports for openings in masonry walls shall be accurately and strongly made, properly braced and secured into position until masonry has thoroughly set.

TEMPLATES AND MEASURING BOXES: Provide all necessary templates and measuring boxes as required.

BUILDING PAPER: Install building paper as indicated on drawings and as required to protect work from rain and weather.

PRESERVATIVE-TREATED WOOD PRODUCTS: Provide preservative-treated wood in following locations:

All lumber used in exterior wall or other exterior construction.

All plywood used in exterior construction.

All lumber used in connection with concrete, masonry or steel.

All wood used in roof construction including fascia backup, cants, nailers and runners at mechanical units.

Apply two brush coats of same preservative used in original treatment to all sawed or cut surfaces of treated lumber.

PROTECTION

Protect masonry and concrete subject to damage during work, including edges of sills, concrete slabs, concrete steps, platforms and similar items, remove such protective covering when directed.

CLEAN-UP

Pick up cuttings and debris normal to this operation daily and store in areas safely removed from the building or in fire-proof containers.

END OF SECTION 06100

SECTION 07110 – WATERPROOFING & DAMPPROOFING

PART ONE - GENERAL

DESCRIPTION

Provide and install all water proofing, damp proofing, vapor barriers, and thru-wall flashings where indicated on drawings and specified herein.

RELATED WORK SPECIFIED ELSEWHERE

General & Supplementary Conditions, Special Requirements

Grading: Section 02200

Cast-in-Place Concrete: Section 03300

Masonry: Division 4

Painting: Section 09900

PRODUCT DELIVERY, STORAGE, AND HANDLING

Store materials above ground on level platforms in unopened containers. Cover and store in approved manner, which will protect them from weather exposure.

PART TWO - PRODUCTS

VAPOR BARRIER: Densely structured, heavy duty single ply 11 mil thick vinyl plastic sheet. **Tape all joints & penetrations for a positive seal.**

THRU WALL PLASTIC WALL FLASHING: N/A

ADHESIVES: Type recommended by flashing manufacturer for weather resistant seaming and adhesive application of wall flashing sheet.

INSPECTION

Inspect surfaces to verify suitability.

Verify proper fill and compaction for vapor barriers under slabs on grade. Report unsatisfactory conditions.

PREPARATION

Clean surfaces to be treated of oil, grease, dirt, laitance and loose material. Point and fill holes, joints, and cracks flush, grind down high spots and rough surfaces and leave smooth. Moisture content of surface shall be as recommended by material manufacturer.

INSTALLATION

Install all products in accordance with manufacturer's instructions and recommendations.

VAPOR BARRIERS: Over leveled fill material under floor slabs on grade, place one layer of membrane material, lapping edges at least 6". Lap and seal joints; seal edges to wall, column bases, etc. fold and cement corners, or otherwise make vaporproof. Provide sealed contact with piping and penetrating features.

Seal punctures and cuts before placing concrete.

END OF SECTION 07110

SECTION 07400 - METAL ROOFING SYSTEM

PART ONE - GENERAL

DESCRIPTION

Provide and install standing seam roof panels and trim as shown on Drawings and specified herein. Metal roof system and accessories shall achieve an undivided and single source responsibility.

Also included is the installation of closures, roof edge, clip fasteners, ridge cap, rubber vent flashing, curbs and all accessories for a complete watertight system.

Install all required curbs of flashing systems compatible with profile of roof system.

RELATED WORK SPECIFIED ELSEWHERE

- 1. General & supplementary Conditions, Special Requirements**
2. Metal Decking: Section 05300
3. Flashing and Sheetmetal: Section 07600

QUALITY ASSURANCE

GENERAL: It is the intent of this specification to describe a 24 ga. standing seam metal roof system with factory finish. Including details, materials and methods of application for a complete system.

Manufacturer is to be in business a minimum of (5) five years.

Applicator shall be certified by manufacturer.

Qualifications: Furnish written proof upon submitting bid to Owner, stating that the Roofing Contractor is a manufacturers approved applicator of the roofing system to be installed and that the Roofer can secure the Twenty Year Manufacturers Warranty for the specified system.

Certification: Installation of insulation and roofing shall meet requirements of Factory Mutual regarding fire and uplift due to wind. Factory Mutual Class 1-60.

Contractor shall be required to attend review and Designer and Owner to make inspections of the roofing system toward the end of the one (1) year warranty period and toward the end of the roofing guarantee period. Contractor shall make approved repairs and/or replacements as covered by the guarantee.

Owner may at his option select and employ at the Owner's Expense:

A Roofing Systems Consultant to review the Construction Documents and/or perform surveillance during any installation of substrate, roofing, flashing and any other part of the total roofing system.

The roofing system product supplier shall furnish the Roofing Contractor with Material Safety Data Sheet/Sheets (MSDS), incorporating OSHA approved form, current edition. Said sheets shall be available at the site at all time until project completion.

PRE-ROOFING CONFERENCES

The Owner, Architect, Contractor and Roofing Contractor shall attend a pre-roofing conference conducted by the Architect at the site prior to the beginning of any phase of the roof work.

SUBMITTALS

Submit shop drawings and manufacturer's literature in triplicate. Shop drawings are required for final inspection of the warranted roof. Shop drawings shall be made by manufacturer.

Shop drawing shall include outline of roof, roof size, location of penetrations, perimeter details, anchoring device locations and special details.

At completion of Project, Roofing Contractor shall submit to Owner, in a ring binder, two copies of all roofing data, including manufacturers catalogs/manuals of materials and accessories used in the project.

Roofing Contractor shall submit at completion of job as-built specifications, including all change orders and shop drawings and details utilized on project in 3-ring binder.

GUARANTEES

The roof and associated work shall be guaranteed against leaks from faulty or defective materials and workmanship for 10 Year Guarantee.

Representative of the Designer, Owner, USER Agency, the General Contractor, the Roofing contractor and Roofing Manufacturer's representative shall make inspections of the roofing system toward the end of the one (1) year warranty period and toward the end of the Roofing Contractor's guarantee period. Further, the Roofing System Manufacturer's authorized technical representative shall inspect the roofing system at the conclusion of the Manufacturer's Guarantee and report same to the User with copy to Owner. The Roofing Contractor or Roofing Systems Manufacturer, as applicable, shall make approved repairs and/or replacements covered by the Guarantee. Project will not be accepted until the Roofing Contractor's Guarantee, executed in strict accordance with the Roofing Guarantee (pages R1-1, R1-2, R1-3) included herein and made a part of Contract Documents as been submitted and accepted by the Owner.

The roof system and associated work shall be guaranteed against leaks from faulty or defective materials and workmanship for an applicable period shown on guarantee, starting on the date of the Owner's acceptance of the project.

The "Roofing Guarantee" shall be executed in duplicate, signed by the appropriate parties and submitted to the Owner through the Architect.

A separate Ten (10) Year Guarantee shall be furnished by the manufacturer of the materials of the roofing system. The sample form of the guarantee shall be delivered to the Architect from the manufacturer through the Contractor. The manufacturer is to include a list of all component parts of the roofing system that shall be guaranteed. The manufacturer's letter shall also state acceptance of the installer of the roofing system. This form, list and letter shall be received and reviewed by the Architect for compliance as a shop drawing and specification prior to conducting the Preliminary Roofing Conference.

The Roofing Manufacturer's Guarantee shall guarantee at the manufacturer's own cost and expense, to make or cause to be made such repairs to or replacement of, to correct any and all faulty installations or materials of the roofing system, to keep the roofing system in a watertight condition throughout the 10 Year Guarantee period. The guarantee shall not be prorated. The executed guarantee shall be delivered to the Architect in three original counterparts prior to acceptance of the Work.

The definition of the roofing system includes the materials and methods used from the deck up. Excluded are the metal counter flashing, edging, caps and copings, vent covers (pre-manufactured) and roof drain assemblies unless items are included by prior approval of the Owner in which case included items will be specified as inclusive.

PRODUCT DELIVERY, STORAGE, AND HANDLING

Do not deliver materials until roofing operation is ready to begin.

Deliver materials in manufacturer's original, unopened containers with labels intact and legible, and in sufficient quantity to allow continuity of work.

Store all roofing materials on clean, raised platforms with weather protective covering.

Protect materials against damage by construction traffic.

Provide continuous protection of materials.

Remove wet and/or damaged materials from jobsite.

Comply with fire and safety regulations.

JOB CONDITIONS

Apply roofing in dry weather.

Install only as much roofing system as can be completed each day. Once started, continue roofing without interruption until completed.

Do not store or allow access on any adjacent completed built-up roof surfaces.

PART TWO - PRODUCTS

METAL ROOFING SYSTEM

ROOF PANELS: Furnish and install 24 ga. x 13" wide (**double lock seam**) colorklad standing seam roof with **Kynar 500 finish**. Seam height shall be 1.5" (max.) and all seams to be machine locked with seamer. Metal panels to be installed over 3/4" plywood (See architectural drawings), as indicated on plans mechanically seamed (double seamed) after panel installation. All exposed metal flashing at parapet walls, eave trim, downspouts, and fascias shall be colorklad to match roof panels. There will be no exposed screws on roof panels. Color clad pop rivets and screws are acceptable on fascia, wall panels, eaves, gutters, downspouts, soffits, and ridge vents.

ROOFING CONTRACTOR SHALL FURNISH:

Ten (10) year warranty on workmanship and water tight installation.
Twenty (20) year warranty on metal panel.

Roofing panel must be double locked seamed.

Roofing Panel - Architectural Building Components

Vincent Metal Goods
MBCI
AMS
CECO
AEP Span

Colors: Color shall be chosen by manufacturers standard colors and highest price color selection by Architect.

Concealed Clips: 24 ga. steel with a class G60 galvanized coating. (Spacing 24" o.c.).

Fasteners: Self-drilling or self-tapping screws.

Flashing and Edge Trim: 24 ga. material and finish to match panels. Dissimilar materials or finish will not be allowed.

Sealants: Butyl Gunable Sealant, Fed. Pec. TT-S—00230C.

Preformed End Closures: Waterproof, laminated semi-rigid, cross linked polyethylene foam shaped to tightly fit the panel configuration.

Ridge Cap: 24 ga. vented cap finish to match panel.

Curbs and Roof Penetrations: As recommended by manufacturer.

PART THREE - EXECUTION

General: System shall be installed in strict accordance with manufacturers specifications for Warranty on complete roofing system.

INSPECTION

Metal panels shall be installed only when the subframe is installed and aligned to acceptable tolerances.

STORAGE

Material protection shall be provided during fabrication, shipment , storage and erection.

During shipment, finished surfaces may be protected from abrasion by a removable plastic film between areas of contact.

Jobsite storage shall be in a clean, dry area out of direct contact with the ground, under cover or sloped for drainage, protected from abuse by traffic and from contamination by corrosive or staining materials.

Stored materials and unfinished work shall be secured against wind damage.
Installed panels shall be protected from abuse by other trades.

It shall be the responsibility of the Contractor to provide walk boards in areas of heavy traffic and any other measures required to prevent damage by his own crews and notify the General Contractor of any necessity for protection from other trades.

INSTALLATION

All work shall be installed in accord with approved shop details under direct supervision of an experienced sheet metal craftsman.

Attachments and joints shall allow for expansion and contraction from temperature changes without distortion or elongation of fastener holes.

Flashings shall be installed in strict accord with the recommended practice in SMACNA Architectural Sheet Metal Manual, latest edition.

Remove any strippable protective coating on flashings prior to installation and in any case do not allow the strippable coating to remain on the panels in extreme heat, cold, or in direct sunlight or other UV source.

Caulk, seal and fasten so as to provide a complete weathertight installation.

Discrepancies between job site conditions and drawings as approved shall be brought to the attention of the Architect or his representative for resolution.

Install all required roof accessories specified under Section 07800 or required by Drawings. Flashing shall be furnished and installed to satisfy conditions of use.

CLEAN-UP

As work progresses, remove excess scrap and keep working surface free from debris on a daily basis.

Touch-up areas as required or directed with manufacturer's standard touch-up paint. Follow instruction for application carefully.

Leave project at completion free from stains and scrap. Wash panel surface with water if necessary.

Final inspection will be at the discretion of the Architect or his representative.

END OF SECTION 07400

SECTION 09900 – PAINTING

PART ONE - GENERAL

DESCRIPTION

Provide painting for all exposed interior and exterior surfaces, including items on roof, unless specifically excluded. Surfaces include but are not limited to:

Structural Steel.

Miscellaneous metal fabrications.

Galvanized metal and other sheet metal. (All exposed ductwork)

Rooftop mechanical equipment.

Hollow metal work.

Concrete masonry.

Painted wall graphics, striping & logos.

Back priming of wood.

Doors & frames.

Exposed wood.

Texturing and painting gypsum board.

Exposed conduit, piping (including copper), hangers, supports and fasteners, and ductwork.

Cast iron piping, where exposed.

Items which have received a factory prime or shop coat finish.

Surfaces, including interiors of ducts, behind grilles or any other form of construction which will be visible from any angle.

Interior and exterior plaster.

Provide and install all metal corner beads for taping and floating drywall.

DEFINITION

The terms “paint” or painting” as used in this section in a general sense have reference to sealers, primers, stains, oil, alkyd, latex, polyurethane, and enamel-type paints and the application of these materials.

RELATED WORK SPECIFIED ELSEWHERE

General & Supplementary Conditions

Cast-In-Place Concrete: Section 03300

Concrete Unit Masonry: Section 04200

Membrane Waterproofing: Section 07110

QUALITY ASSURANCE

Workmanship: All workmanship is to be of the very highest standard with all materials evenly spread and smoothly flowed on without sagging, runs, or other defects affecting the utility or appearance of the work.

Materials applied with inferior workmanship shall be removed and reapplied in an acceptable manner, at no additional cost to Owner or Architect.

Unless specified otherwise, all materials shall be of the best grade of first line paint. Products equivalent to those specified and manufactured by the following manufacturers are acceptable: PPG Industries, Sherwin Williams, & Tnemec or approved equal.

SUBMITTALS

Color Samples: Furnish Architect a complete range of color samples, in duplicate, of products to be used for preparation of color schedules. Architect will provide complete schedule of colors.

This subcontractor shall then prepare samples at the job as required until the colors and textures are satisfactory. Subcontractor will submit shop drawings on all paints.

Certificate: Furnish paint manufacturer's certification that all paint materials proposed for use on the project are the best grade of first line products.

PRODUCT DELIVERY, STORAGE & HANDLING

Deliver materials in original, unopened containers with contents labeled. Keep space used for storage of equipment and materials in clean and orderly condition. Keep all waste and paint rags in metal containers, tightly covered or safely disposed of at end of each working day. Take every precaution to avoid fire. Provide approved type of fire extinguisher immediately outside each paint storage space.

JOB CONDITIONS

Coordinate with other trades to insure adequate illumination, ventilation and dust-free environment during application and drying of paint.

Maintain temperature and humidity within manufacturer's recommended tolerances.

In the absence of specific instructions by manufacturer to the contrary, exterior painting shall not be done during cold or damp weather nor when the temperature is likely to drop below 32 degrees F. during the curing cycle of the applied finish.

ADDITIONAL PAINT

Provide Owner, at completion of job, one unopened gallon of paint each color selected, in tightly sealed containers labeled with color sample and a list of room numbers where used.

PART TWO - PRODUCTS

MATERIALS

Compound for Gypsum Wallboard Texture: Vinyl bound aggregated texture material in powdered form, mixed with water to produce a rough sand finish effect.

Texture: Texture grade selected by Architect.

Paint Materials: Finish coats to be from same manufacturer wherever possible. Base and intermediate coats shall be products recommended by manufacturer of finish coat. Refer to Paint Schedule for materials.

Gypsum Wallboard Treatment Materials

Joint Tapes: Plain or perforated ASTM C-475.

Corner Beads: Galvanized steel nailed to framing thru panels.

“Dur-a-bead” (U.S.G.) or “Standard Corner Bead” (Nat’l. Gyp.)

Compound for Embedding: ASTM C-475.

Joint Treatment: USG Perf-A-Tape System. Provide U.S.G. Ready-Mix components at gypsum board panels.

INSPECTION OF SURFACES

Before starting any work, inspect surfaces to receive paint finishes for defects which cannot be corrected by the usual puttying and sanding and cleaning, and which would prevent satisfactory results. If such defects are discovered, notify the Contractor and await corrective action.

Commencing of work constitutes acceptance of surfaces and thereafter this Contractor shall be fully responsible for satisfactory work.

PREPARATION OF SURFACES

Surfaces to which paint is applied shall be dry and clean. Patch or fill as required. Wash metal surfaces thoroughly with benzine or mineral spirits before applying paint materials and clean galvanized iron thoroughly with solvent or zinc phosphate pretreatment solution.

All woodwork and cabinets receiving paint or transparent finishes shall be sandpapered before priming and between each coat, to produce a smooth finish, free from scratches and brush marks.

After surfaces have been primed, apply putty or an elastic compound in all nail holes, cracks, crevices, or open joints between structural steel, miscellaneous steel or other adjoining materials. Finish putty or compound flush with adjoining surfaces. Putty shall match wood on varnished or lacquered surfaces.

After required cleaning and sanding of surfaces, should the painter or the Architect’s representative find such surfaces or condition unacceptable, he shall at once stop work on this portion of the project until the faulty conditions are corrected.

Back Priming: Back prime wood material as specified in Finish Carpentry and Millwork.

Tape, float, sand and install all corner beads to properly prepare gypsum drywall partitions for required finish.

APPLICATION

Apply all paint in accordance with manufacturer's directions. Apply paint with brush or roller. No spray applications allowed unless approved in writing by Architect.

Primer/filler coat on concrete masonry units shall be applied so as to fill all pinholes, voids, cavities and the like so as to achieve a uniform finished surface on the face of all units.

The undercoats for finishes shall be tinted slightly off the shade of the final coat. Each coat shall be inspected and approved by the Architect before application of succeeding coats. This subcontractor assumes all responsibility to repaint or refinish any area in question. Paint on steel or iron shall be a different shade for each coat.

No gypsum board joint and corner treatment, painting, or special wall covering will be required above ceiling, behind built-in millwork, behind wood paneling, behind acoustical tile, ceramic tile, or in other permanently concealed locations (unless specifically called for otherwise on drawings).

Top and bottom of wood doors shall be sealed after fitting and adjusting.

TOUCH UP AND CLEAN

After completion, touch-up and restore finish where damaged and leave in good condition. Remove all unused materials and empty containers, clean paint from any surface not to be painted such as window glass, hardware, fixtures, finish floor, etc., and leave premises broom clean.

PROTECTION OF WORK

This subcontractor shall be fully responsible for the protection of his work and that of others from injury or staining. He shall provide a sufficient number of drip cloths to fully protect adjacent finished work. He shall store his materials in a separate building from the one under construction.

SURFACES AND ITEMS NOT REQUIRING PAINTING UNDER THIS SECTION

Shop Priming: Unless otherwise specified, shop priming of ferrous metal items is included under the various sections for structural steel, miscellaneous metal items, hollow metal work and shop fabricated or factory-built mechanical and electrical equipment or accessories.

Pre-Finished Items: Unless otherwise indicated, do not include painting when factory-finishing or installer-finishing is specified for such items as plastic toilet enclosures, acoustic materials, finished mechanical and electrical equipment including light fixtures, switchgear and distribution cabinets. Pre-finished items shall receive field "touch-up" with same paint as original finish.

Concealed Surfaces: Unless otherwise indicated, painting is not required on wall or ceiling surfaces in concealed areas and inaccessible areas, such as foundation spaces, furred areas, pipe spaces, duct shafts and elevator shafts, as applicable to this project.

Finished Metal Surfaces: Metal surfaces of anodized aluminum, stainless steel, chromium plate, copper,

bronze and similar finished materials will not require finish painting except as otherwise specified.

Operating Parts & Labels: Do not paint any moving parts of operating units, mechanical and electrical parts, such as valve and damper operators, linkages, sensing devices, motor and fan shafts, unless otherwise indicated.

Do not paint over any code-required labels, such as Underwriter's Laboratories and Factory Mutual, or any equipment identification, performance rating, name, or nomenclature plates.

Miscellaneous Surfaces: Do not paint concrete floors, except as scheduled otherwise, gypsum wallboard scheduled to receive other finish materials, or Pre-Engineered Building structure and exterior wall openings except as scheduled otherwise.

PAINT SCHEDULE

The following treatment (as applicable) shall be applied to surfaces as indicated on Finish Schedule and detailed on drawings. Prime coats specified below will not be required on items delivered with prime or shop coats already applied.

Number of coats called for shall be minimum; additional coat or coats shall be applied if required to achieve satisfactory results.

APPROVED MANUFACTURERS

Brand names indicated below are P.P.G, Tnemec, and Sherwin Williams. Other manufactures shall submit products for prior approval as provided by Section 01340 – Submittals and shop drawings. Provide painting materials produced by single manufacturer. Paint supplier must submit shop drawings for each individual surface. These are the following paint specifications or as indicated on the architectural plans.

1 – Ferrous Metal Other Than Galvanized

- .1 – 1 coat Sherwin Williams Kem Kromik Universal Metal Primer
- .2 – 2 coats Sherwin Williams Epo-Plex Multi-mil WB Epoxy
- .1 - 1 coat Speedhide red primer
- .2 - 2 coats Speedhide exterior enamel

2 - Exterior Metal Galvanized

- .1 - 1 coat Speedhide galvanized steel primer
- .2 - 2 coats Sun-Proof oil type paint
- .1. – No primer
- .2 – 2 coats Epo-Plex Multi W/B Epoxy

3 - Exposed Concrete Structure

- .1 - 1 coat Speedhide latex masonry block filler
- .2 - 2 coats Speedhide Latex semigloss enamel

- .1 – 1 coat Loxon Masonry Primer
- .2 – 2 coats SheryCryl HPA (High Performance Acrylic)

4 - Interior Concrete Block/Plaster (Epoxy)

- .1 - 2 coats Speedhide block fill
- .2 - 1 coat Speedhide alkali resistant primer
- .3 - 2 coats Pitt-glaze polyester-epoxy gloss coating

- .1 – 1 coat Heavy Duty block filler
- .2 – 2 coats Armor Tile High Solids

- .1 – 1 coat Tnemec Series 130 Envirofill
- .2 – 2 coats Tnemenc Series 113/144 Tufcoat

5 - Interior Ferrous Metal other than Galvanized

- .1 - 1 coat Speedhide white galvanized steel primer.
- .2 - 2 coats Speedhide interior gloss enamel.

- .1 – 1 coat Kem Kromik Universal Metal Primer
- .2 - 2 coats Epo – Plex Multi W/B Epoxy

6 - Interior Metal Galvanized

- .1 - 1 coat Speedhide white galvanized steel primer
- .2 - 2 coats Speedhide interior gloss enamel
- .2- 2 coats Speedhide interior gloss enamel

- .1. – No primer
- .2 – 2 coats Epo – Plex Multi W/B Epoxy

7 - Interior Wood (Owner's option for Painter Surfaces)

- .1 - 1 coat enamel undercoated
- .2 - 2 coats b-lustre enamel

- .1 – 1 coat Preprite Wall & Wood Primer
- .2 – 2 coats Promar 200 Alkyd S/G Enamel

8 - Interior Wood (Owner's Option for Stained Surfaces)

- .1 - 1 coat pigmented wood stain

- .2 - 1 coat Sandsealer
- .3 - 2 coats flat varnish

- .1 – 1 coat Minwax or Wood Classic wood stain
- .2 – 1 coat Wood Classic Sanding Sealer
- .3 – 2 coats Wood Classic Fast Dry Oil Varnish

9 - Interior Gypsum Board (Epoxy – See Schedule)

- .1 - 1 coat Speedhide Alkali Resistant Primer
- .2 - 2 coats Pitt-glaze polyester-epoxy gloss coating

- .1 – 1 coat Tnemec Series 51-792 PVA Sealer
- .2 – 2 coats Tnemenc Series 113/144 Tufcoat

- .1 – 1 coat Preprite 200 int. Latex Primer
- .2 – 2 coats Armor Tile High Solids

10 - Interior Gypsum Board

- .1 - 1 coat Speedhide textured roll-on / or sprayed
- .2 - 1 coat Speedhide quick-drying emulsion sealer
- .3 - 2 coats Speedhide latex semi-gloss enamel

- .1 – 1 coat Texture roll on / or sprayed
- .2 – 1 coat Preprite 200 Latex Primer
- .3 – 2 coats Preprite 200 Latex Semigloss

11 – Sealer at Troweled Concrete

- .1 - “Lapidolith” as manufactured by Sonneborn applied in accordance with manufacturer’s recommendation. A colored sealer shall be selected from standard colors of sealer by Architect.

12 – Shop or Factory Primed Items (including Mechanical & Electrical items)

- .1 - 1 Coat: Touch-up primer as required
- .2 – 2 Coats: Tnemec alkyd enamel

- .1 – 1 Coat Kem Kromik Universal Metal Primer
- .2 – 2 Coats Industrial Alkyd Enamel

13 – Visible Surfaces Behind Grilles or Behind Other Construction

- .1 – 1 Coat: Primer
- .2 – 2 Coats: Flat Black

14 – Mechanical Work (Exposed on interior and exterior of buildings)

HVAC ductwork in Gym shall be painted and color selected by Architect

Exposed insulated surfaces covered with canvas, including piping, converters, expansion tanks, ductwork, etc., shall receive a sizing coat plus two (2) coats of paint.

Exposed uninsulated piping and all supports and hangers: Paint as indicated in Paint Schedule.

Exposed insulated surfaces having a vapor barrier jacket shall have a sealer and one (1) coat of paint.

Exposed hot piping shall have two (2) coats of high temperature aluminum paint suitable for 1200 degrees F.

Exposed sheet metal surfaces of ductwork and duct hangers, etc: Paint as indicated in Paint Schedule.

Equipment, such as fans, pumps, factory air handling units, motors, etc., having only factory primed finishes: Paint as indicated in Paint Schedule.

15 – Electrical Work (Exposed on interior and exterior of buildings)

Paint as indicated in Paint Schedule.

16 – Unscheduled Surfaces

Any surface exposed to view and not scheduled in this “Paint Schedule” shall be cleaned and receive a minimum of one (1) coat of primer and two finish coats of paint of type approved by the Architect.

END OF SECTION 09900

SECTION 10350 - FLAGPOLES

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes [**ground-set**] flagpoles made from aluminum.

1.2 PERFORMANCE REQUIREMENTS

- A. Structural Performance: Provide flagpoles capable of withstanding the effects of wind loads, determined according to NAAMM FP 1001, "Guide Specifications for Design of Metal Flagpoles."
1. Base flagpole design on polyester flags of maximum standard size suitable for use with flagpole.
 2. Basic Wind Speed: [**90 mph**]; 3-second gust speed at **33 feet** aboveground.

1.3 SUBMITTALS

- A. Product Data: For each type of flagpole required.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
- B. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. American Flagpole; a Kearney-National Inc. Company.
 2. Baartol Company Inc. (The)
 3. Concord Industries, Inc.
 4. Eder Flag Manufacturing Company, Inc.
 5. Ewing International.
 6. Lingo Inc.; Acme Flagpole Division.
 7. Michigan Flagpole Inc.
 8. Morgan-Francis Div.; Original Tractor Cab Co., Inc.
 9. Pole-Tech Company Inc.

2.2 FLAGPOLES

- A. Flagpole Construction, General: Construct flagpoles in one piece if possible. If more than one piece is necessary, provide flush hairline joints using self-aligning, snug-fitting, internal sleeves.
- B. Exposed Height: [**30 feet (9.1 m)**].

- C. Aluminum Flagpoles: Provide cone-tapered flagpoles fabricated from seamless extruded tubing complying with **ASTM B 241/ (B 241M)**, Alloy 6063, with a minimum wall thickness of **3/16 inch (4.8 mm)**. Heat treat after fabrication to comply with ASTM B 597, Temper T6.
- D. Foundation Tube: Galvanized corrugated-steel foundation tube, **0.064-inch-** minimum nominal wall thickness. Provide with **3/16-inch** steel bottom plate and support plate; **3/4-inch-** diameter, steel ground spike; and steel centering wedges all welded together. Galvanize steel parts, including foundation tube, after assembly. Provide loose hardwood wedges at top of foundation tube for plumbing pole. Provide flashing collar of same material and finish as flagpole.
- E. Cast-Metal Shoe Base: For anchor-bolt mounting; provide with anchor bolts.
- F. **[Vertical] [Outrigger]** Wall Mount: N/A

2.3 FITTINGS

- A. Finial Ball: Manufacturer's standard flush-seam ball, sized as indicated or, if not indicated, to match flagpole-butt diameter; finished to match flagpole.
- B. Internal Halyard, Winch System: Manually operated winch with control stop device and removable handle, stainless-steel cable halyard, and concealed revolving truck assembly with plastic-coated counterweight and sling. Provide flush access door secured with cylinder lock. Finish truck assembly to match flagpole. Paragraph below is available for flagpoles 40 feet (12 m) or less in height. Revise if stationary truck is used
- C. Halyard Flag Snaps: Provide two swivel snap hooks per halyard.
- D. Elastomeric Joint Sealant: Single-component urethane or single-component neutral-curing silicone joint sealant complying with requirements in Division 7 Section "Joint Sealants" for Use NT (nontraffic) and for Use M, G, A, and, as applicable to joint substrates indicated, O joint substrates.

2.4 FINISHES

- A. Aluminum: Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes
 - 1. Class I, Color Anodic Finish: AA-M12C22A42/A44 (Mechanical Finish: nonspecular as fabricated; Chemical Finish: etched, medium matte; Anodic Coating: Architectural Class I, integrally colored or electrolytically deposited color coating 0.018 mm or thicker) complying with AAMA 611.
 - a. Color: **[Black]**.

PART 3 - EXECUTION

3.1 FLAGPOLE INSTALLATION

- A. General: Install flagpoles where shown and according to manufacturer's written instructions.
- B. Prepare uncoated metal flagpoles that are set in foundation tubes by painting below-grade portions with a heavy coat of bituminous paint.
- C. Foundation-Tube Installation: Install flagpole in foundation tube, seated on bottom plate between steel centering wedges. Plumb flagpole and install hardwood wedges to secure flagpole in place. Place and compact sand in foundation tube and remove hardwood wedges. Seal top of foundation tube with a 2-inch (50-mm) layer of elastomeric joint sealant and cover with flashing collar.
- D. Baseplate Installation: Install baseplate on washers placed over leveling nuts on anchor bolts and adjust until flagpole is plumb. After flagpole is plumb, tighten retaining nuts and fill space under baseplate solidly with nonshrink, nonmetallic grout. Finish exposed grout surfaces smooth and slope 45 degrees away from edges of baseplate.

END OF SECTION 10350

SECTION 10425 – SIGNS AND BUILDING PLAQUE

PART ONE - GENERAL

DESCRIPTION

Provide and install all room signs and plaques as specified herein.

Include all clips, supports, screws and mounting brackets for complete installation.

Verify necessary clearance/mounting backing for sign placement relative to overall size and required "text" heights for tactile ADA exit signage.

RELATED WORK SPECIFIED ELSEWHERE

General & Supplementary Conditions

SUBMITTALS

Submit manufacturers descriptive brochures and necessary supplemental detailed information indicating quality, finishes and accessories required for complete installation.

Camera ready layout shall be prepared by the manufacturer of graphic/ panel and approved by Architect prior to fabrication.

Architect shall select colors from manufacturers full range of colors.

PRODUCT DELIVERY, STORAGE, AND HANDLING

Deliver items in manufacturers original unopened protective packaging.

Store materials in original protective packaging to prevent soiling, physical damage or wetting.

Handle so as to prevent damage to finished surfaces.

PART TWO - PRODUCTS

MATERIALS

Letters: Shall be A.R.K. Ramos 12" high F-6B Black Anodized Aluminum or as selected by owner verify prior to ordering. Gemini, Inc. approved equal

Submit shop drawings of exact text and composition prior to casting.

Lettering shall be as follows:

UNIVERSITY PARK

QUANTITY

Provide letters as indicated on architectural drawings & shown herein. Size to be 12" high mounted on solid 12" masonry wall. Mounting shall be PM-1 projected mount with collars and threaded studs set in adhesive.

PART THREE - EXECUTION

INSPECTION

Inspect surfaces to verify suitability.

Do not proceed until all conditions are acceptable.

INSTALLATION

Provide all mounting devices for complete installation.

Install all signs at all locations scheduled on Drawings.

Install all signs as per manufacturers recommendations and as indicated on drawings.

END OF SECTION 10425

SECTION 11400 – ATHLETIC EQUIPMENT

PART ONE - GENERAL

DESCRIPTION

Provide a containment netting system.

RELATED WORK SPECIFIED ELSEWHERE

General & Supplementary Conditions
Sections 03100, 03200, and 03300
Section 05500

SUBMITTALS

Submit manufacturer's descriptive brochures and necessary supplemental detailed information indicating quality finish and accessories required for complete installation.

PRODUCT DELIVERY, STORAGE AND HANDLING

Deliver items in manufacturer's original unopened protective packaging.

Store materials, in original protective packaging to prevent soiling, physical damage or wetting.

Handle so as to prevent damage to finished surfaces.

QUALITY ASSURANCE

Products must meet or exceed industry standards and ASTM designations for materials.

WARRANTY

Products specified shall be covered under warranty for a minimum of five (5) years against defects in material and workmanship.

PART TWO - PRODUCTS

MATERIAL

1. Netting

Netting for baseball containment shall be manufactured by Fishnet Company, Jonesville, LA. Netting shall be 1 7/8" x 1 7/8" grid and no. 350 testing net with black plastic dip. Netting border shall be 5/16" continuously stitched, polypropylene roped material to vinyl coated

galvanized cable. Attach netting with stainless steel eye bolts as shown on drawing. Provide turnbuckles as required for stretching and adjusting.

Attach netting between and to steel post as detailed on drawings and specified herein. Paint netting steel post black.

Manufactures: Fishnet Company – Jonesville, Louisiana – Phone 800-256-5256
Or approved equal.

PART THREE - EXECUTION

INSPECTION

General: Prior to installation of netting systems, inspect all conditions. Notify Contractor and Architect of any detrimental conditions. Do not proceed until such conditions are satisfactory.

INSTALLATION

General Installation: Bidder is responsible for delivery of product to job site and installation; preparation of installation drawings showing requirements, and coordination with prime contractor for installations.

Installer shall provide written proof that he has at least (5) five years experience in installing this type netting for ball fields. NO EXCEPTIONS WILL BE ALLOWED.

END OF SECTION 11400

ROOFING GUARANTEE R-3 (Metal)

OWNER: STATE OF LOUISIANA University of Louisiana at Monroe
4319 Northeast Drive
Monroe, Louisiana 71201

Whereas _____

Address _____ Telephone: (____) _____
herein called the Contractor, has provided pre-formed, pre-finished metal roofing, flashing, accessories and miscellaneous items required for a complete roof system installation in accordance with the Contract Documents for the PROJECT:

Name of Project: _____

Project Number _____, Part No. _____

User Agency: _____

Location/Address: _____

Name and Type of Building(s): _____

Type of System: (Standing Seam, SR, Flat Seam, etc. _____

Total Roof Area: _____ SF; Total Length of Ridge _____ LF ;

Total Length of Valley: _____ LF: Total Length of gutter/fascia trim: _____

Date of Acceptance _____ Two year Guarantee Expiration _____

AND WHEREAS the Contractor has contracted to guarantee said work against water entry from faulty or defective materials and workmanship for the designated Guarantee period of TWO (2) YEARS from the date of the Final acceptance of the Project;

NOW THEREFORE the Contractor guarantees, subject to the terms and conditions herein set forth, that during the Guarantee Period the Contractor will at his own cost and expense, make or cause to be made with approved procedures and materials such repairs to or replacements of said work (including any wetted thermal insulation) resulting from water entry or faults or defects of said Work as are necessary to maintain said Work in watertight conditions and further, respond on or within TWO (2) working days upon written notification of leaks or defects by the Owner/User Agency.

This Guarantee is made subject the following terms and conditions

1. Specifically excluded from this guarantee are damages to the Work, other parts of the building(s) and building contents caused by: A) lighting; windstorm (including hurricanes and tornadoes), hailstorm, earthquake and other unusual phenomena of the elements; B) fire; and C) structural failures causing excessive roof deck, edges and related roof component movement. When the Work has been damaged by any of the foregoing causes, the Guarantee will be suspended until such time as the damage has been repaired, and until the cost and expense thereof has been assigned or paid by the Owner or the responsible party. The guarantee shall be reinstated upon Final Acceptance of the damage repair Work by both the Owner & Contractor.

2. During the Guarantee Period, if the Owner/ User Agency allows alteration of the Work by anyone other than a Contractor approved in writing by the original Contractor and/or Roofing Material Supplier prior to the work being performed, including cutting, patching and maintenance in connection with penetrations, attachment of other work, and positioning of anything (i.e. signs) onto the roof, this Guarantee shall become null and void as of the date of said alterations. If the Owner/ User Agency engages the original Contractor for said alterations, the Guarantee shall be maintained in force unless the Contractor presents written notification to the Owner that the intended work will likely damage or cause deterioration of the base work, thereby justifying a termination of the original Guarantee.

3. The Owner/User Agency shall promptly notify the Contractor in writing of observed, known or suspected leaks, defects or condition deterioration and shall afford a reasonable opportunity for the Contractor to inspect the work and examine evidence of such leaks, defects or deterioration .

4. This Guarantee is recognized to be the only guarantee of the Contractor of said work, and shall not operate to restrict or cut-off the Owner from any other remedies and recourse lawfully available to him in case of roofing failure to any cause or degree. Specifically, this Guarantee shall not operate to relieve the Contractor of his responsibility for the performance of the original work.

IN WITNESS THEREOF, this instrument has been duly executed
this _____ day of _____, 19____.

Contractor's Signature: _____

Typed Name: _____

Telephone Number _____

WITNESS: _____

And if applicable, is countersigned by the following Sub Contractor, Installer, or other party (as indicated) who acted as agent or represented the Contractor during the performance of the work:

Countersignee Name: _____

(Type or Print)

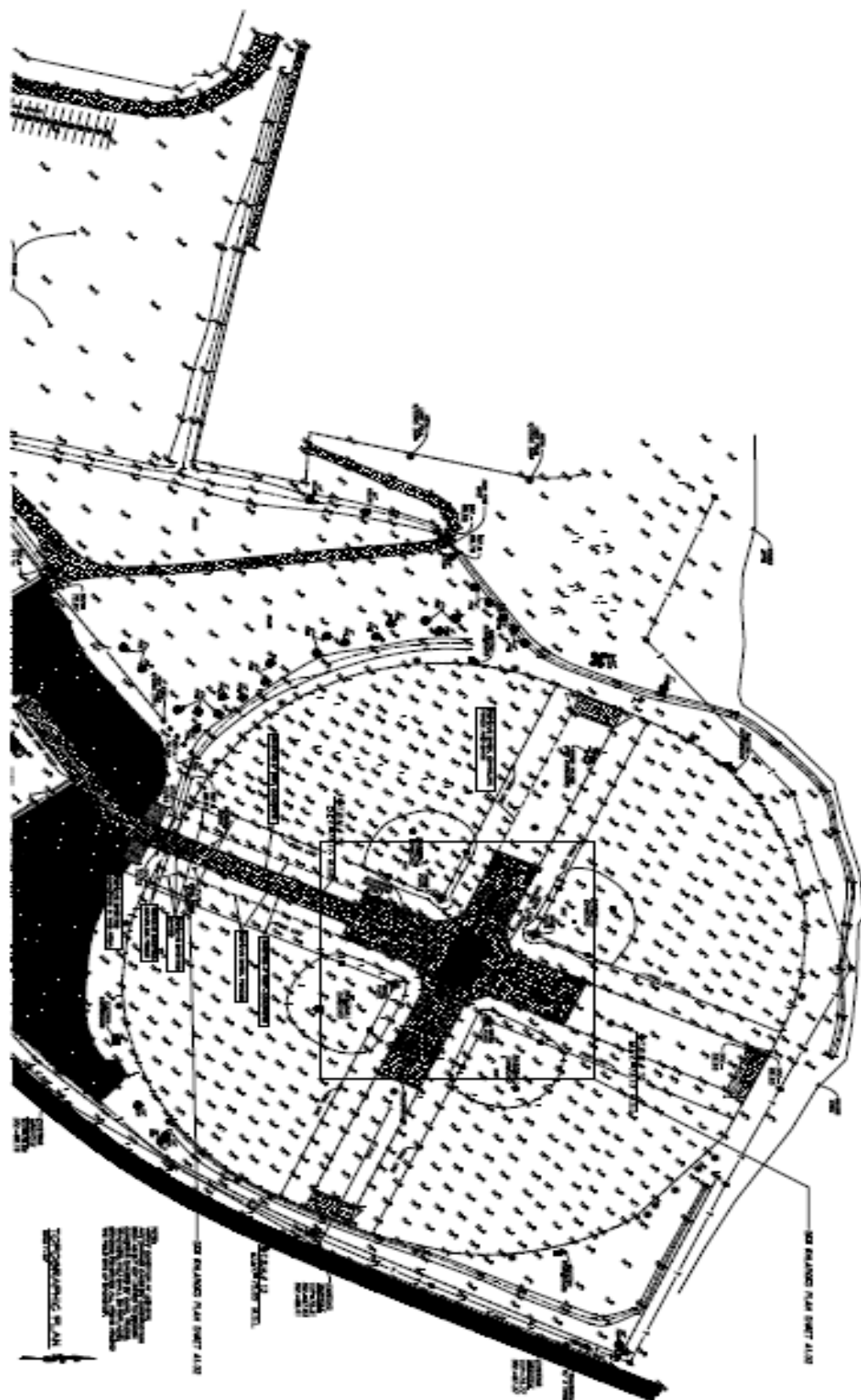
Date: _____ Signature: _____

Representing: _____

Address: _____

Telephone Number: _____

Witness: _____



THIRD PLAN

A1.01

DATE: 10/1/10

SCALE: 1"=20'

SHEET: 10

PROJECT: ULM SOFTBALL FIELD

LOCATION: ULM, MO

DESIGNED BY: T&B ENGINEERING

CHECKED BY: T&B ENGINEERING

APPROVED BY: T&B ENGINEERING

DATE: 10/1/10

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APPROVED BY: T&B ENGINEERING

DATE: 10/1/10

PROJECT: ULM SOFTBALL FIELD

LOCATION: ULM, MO

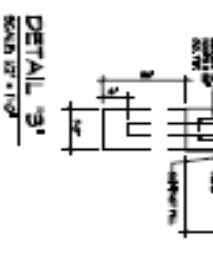
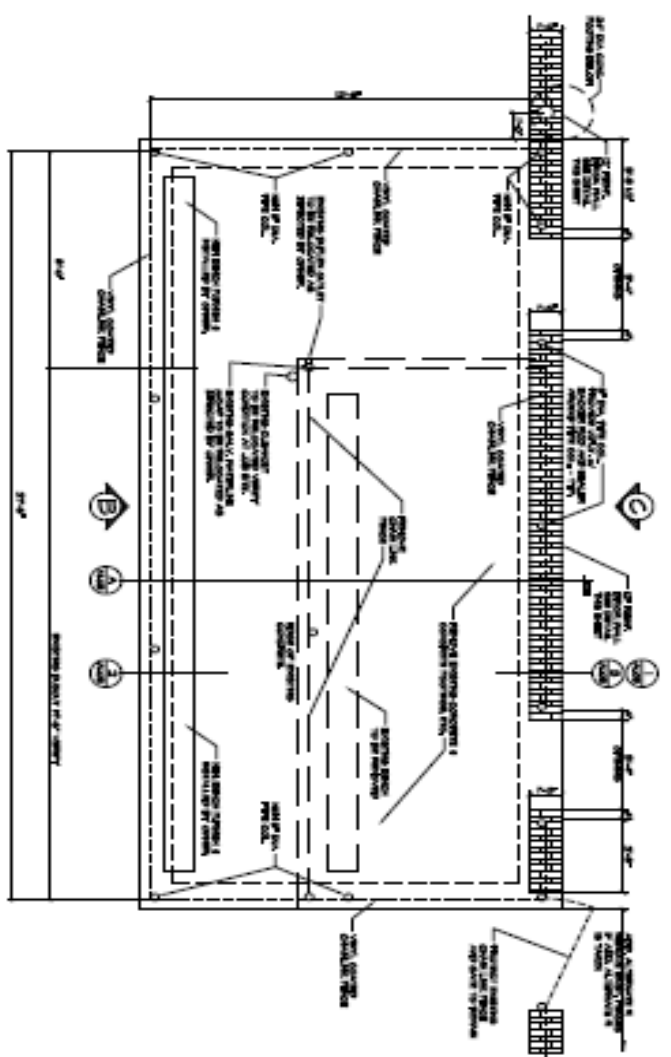
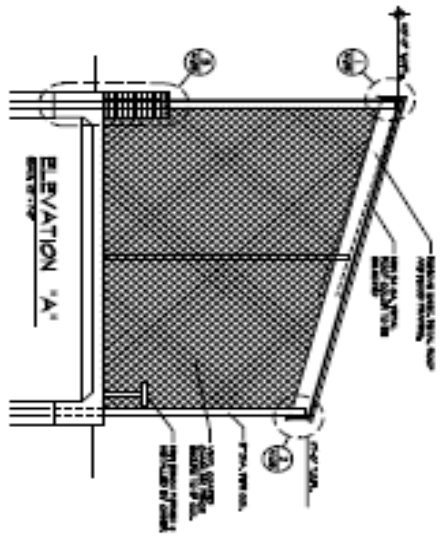
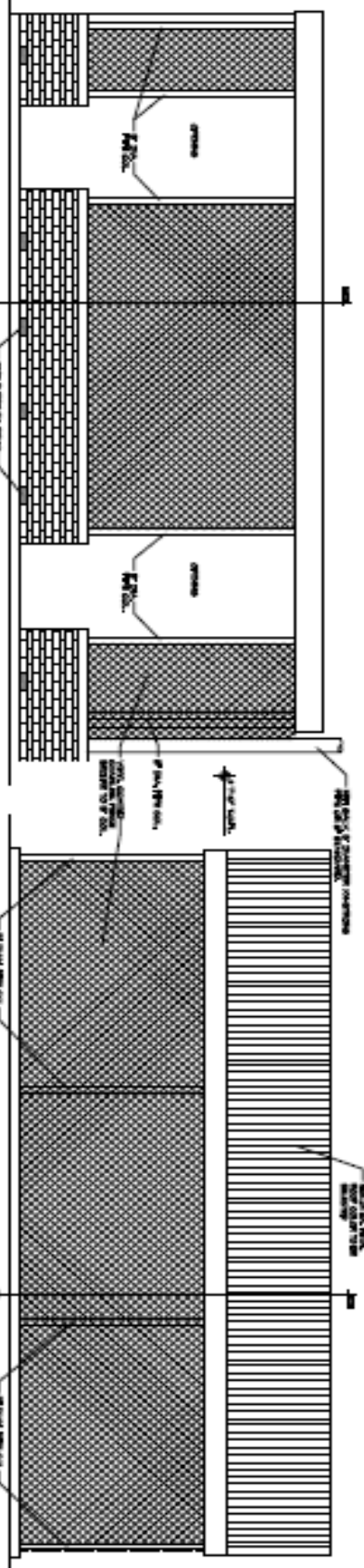
DESIGNED BY: T&B ENGINEERING

CHECKED BY: T&B ENGINEERING

APPROVED BY: T&B ENGINEERING



T&B ENGINEERING, INC.
214 S. 1st Street
St. Louis, Missouri 63102
Tel: 314.241.1111
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www.tbengineering.com



18000 N. Grand Boulevard
St. Louis, Missouri 63104
Tel: (314) 433-1000
Fax: (314) 433-1001
www.tbsurveyors.com

PROJECT
NEW MASONRY BACKSTOP AND DUGOUT FOR:
ULM SOFTBALL FIELD

SOURCE: LOCAL OWNER

REVISIONS	DATE

Scale: 1" = 10'-0"

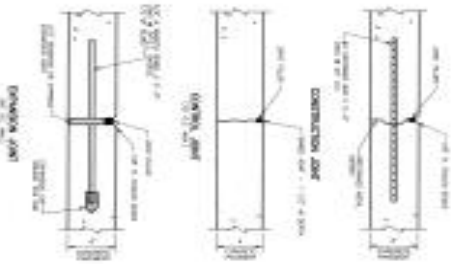
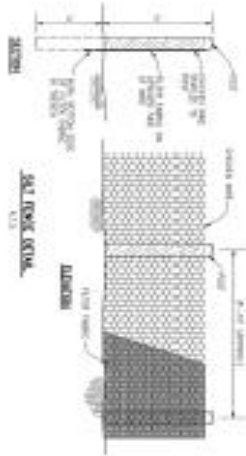
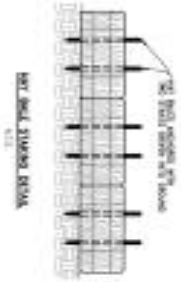
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Project: ULM SOFTBALL FIELD

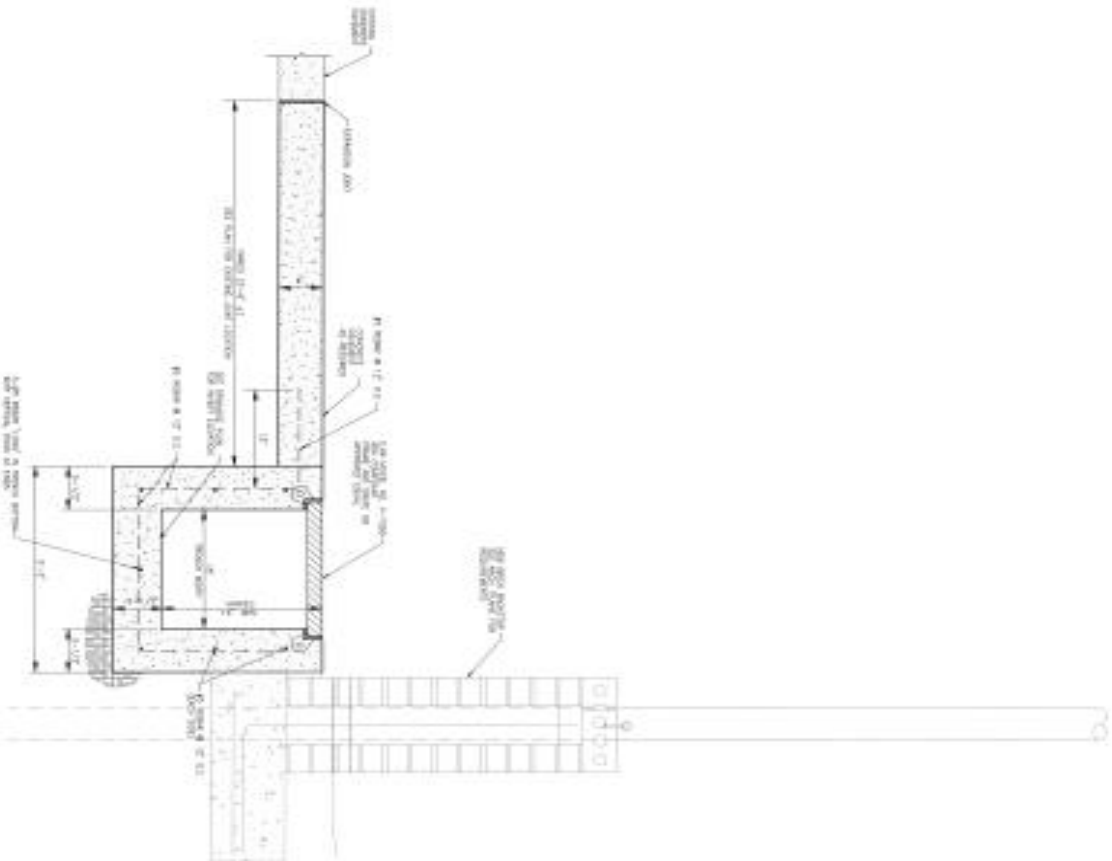
Author: [Name]

Check: [Name]

Title: [Title]



HEAVY DUTY CONCRETE PAVEMENT JOINT DETAILS
PAGE 113



TRENCH DRAIN DETAIL
PAGE 113



PROJECT:
NEW MASONRY BACKSTOP AND DUGOUT FOR
ULM SOFTBALL FIELD
BIRMINGHAM, LOUISIANA

C1.03

Drawn by:	JTT
Checked by:	MS
Date:	3.15.18
Project No.:	1803103
Sheet No.:	1403409
DESCRIPTION:	MASONRY
DETAIL:	